

cagcagttaa	gagaacaaaa	tgaattaatt	cgagaaagaa	gtgaaaagag	tgtagagata	900
acaaaacagg	ataccaaagt	tgagctggag	acttacaagc	aaactcggca	aggtctggat	960
gaaatgtaca	gtgatgtgtg	gaagcagcta	aaagaggaga	agaaagtccg	gttggaactg	1020
gaaaaagaac	tgaggttaca	aattggaatg	aaaaccgaaa	tggaatttgc	aatgaagtta	1080
ctggaaaagg	acaccacga	gaagcaggac	acactagtgt	ccctccgcca	gc	1132

&lt;210&gt; 257

&lt;211&gt; 519

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 257

gaattcgtga	cacgaggtgc	tcgagatgaa	ccccagcgcc	cccagctacc	ccatggcctc	60
tctgtacgtg	ggggacctgc	accccgacgt	gaccgaggcg	atgctctacg	agaagttcag	120
cccgccggg	cccatcctct	ccatccgggt	ctgcaggagc	atgatcacc	gccgtcctt	180
gggctacgcg	tacgtgaact	tccagcagcc	ggcggacgcg	gaacgtgctt	tggaaccat	240
gaattttgat	gttataaagg	gcaagccagt	acgcatcatg	tggtctcagc	gtgatccatc	300
acttcgcaaa	agtggagtag	gcaacatatt	cattaaaaat	ttggacaaat	ccatcgacaa	360
taaagcacta	tatgatacgt	tttctgcgtt	tggtaacatc	ctttcatgta	aggtggtttg	420
tgatgaaaat	ggctccaagg	gctatggatt	tgtacacttt	gaaacacagg	aagcagctga	480
aagagctatt	gaaaaaatga	atgggatgct	tctaaatga			519

&lt;210&gt; 258

&lt;211&gt; 596

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

gctttgccaa	agacttagaa	gctaagcaga	aaatgagctt	aacatcctgg	tttttgggtga	60
gcagtggagg	cactcgccac	aggctgccac	gagaaatgat	ttttgttgga	agagatgact	120
gtgagctcat	gttgacgtct	cgtagtgttg	ataagcaaca	cgctgtcatc	aactatgatg	180
cgtctacgga	tgagcattta	gtgaaggatt	tgggcagcct	caatgggact	tttgtgaatg	240
atgtaaggat	tccggaacag	acttatatca	aaggagaaat	tgaagataag	ctgagatttg	300
gatatgatac	aaatcttttc	actgtagtac	aaggagaaat	gagggtccct	gaagaagctc	360
ttaagcatga	gaagtttacc	attcagcttc	agttgtccca	aaaatcttca	gaatcagaat	420
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tgcagcacia	aactactgaa	gcactgaaat	ccgaggaaaa	agccatggat	atttctgcta	540
tgccccgtgg	tactccatta	tatgggcagc	cgtcatggtg	gggggatgat	gagggtg	596

&lt;210&gt; 259

&lt;211&gt; 595

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 259

gaattcggca	ccagagaaaa	agcttcaagg	tatatgtagt	cagagtcaag	ataaatcact	60
tcggagaatt	tcagaattaa	gagaggagct	gcaaatggac	cagcaagcaa	agaaacatct	120
tcaggacgag	tttgatgcat	gtttggagga	gaaagatcag	tatatcagtg	ttctccagac	180
tcaggtttct	cttctaaagc	agcgattaca	gaatggccca	atgaatgttg	atgctcccaa	240
accctccct	cccggggagc	tccaggcaga	agtgcacggt	gacacggaga	agatggaggg	300
cgctcggggaa	ccagtgggag	gtgggacttc	cgctaaaacc	ctggaaatgc	tccagcaaaag	360
agtgaacgt	caggagaatc	tgcttcagcg	ctgtaaggag	acaattgggt	cccacaagga	420
gcagtgcgca	ctgctgctga	gtgagaagga	ggcactgcag	gagcagtttg	atgaaaggct	480
gcaggagctg	gaaaagatga	aggggatggt	aataaccgag	acgaagcggc	aaatgcttga	540
gaccctggaa	ctgaaagaag	atgaaattgc	tcagcttcgt	agtcatatca	aacag	595

&lt;210&gt; 260

&lt;211&gt; 994

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

```

gaattcggca cgaggcggtt cctgccttct tgctgtctat cagcctttct tgcctcttcc 60
ttttcgcctt ccctgttctt ccctttctca aacaaacaag acatggcaaa ccgcagtcta 120
accagccctt ttgaaattat ccatagtttt acagacagct ccaggccatg agccacaatg 180
tccaaaatta ttcttgagca ctgatataaa ttacttagac ctcttttgag ggcagaactc 240
agctgttgct ctcatgatgg gcagtgcctg aaagggttct ggtatgtctt caaaatgagt 300
ccacgagttt actgagtgtc tacaggtaaa ggaatgaata taagatgtct ttctgatcag 360
aacagggtgc ccttcacatg agctttacta gactctggga gggaaaagta gccaaagtact 420
tctgaaccat tttttaatac ttgttttgct atggtgaaat tatagcagtt atccccaaat 480
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tagatttcac ttgggtttct tttccaaaaa atgctaggtg gacaaggcat tgtaaaccatg 600
agtttccttt aagaaccatc agaataataa tttaacatga agaaaactgc tatactctagt 660
agaaataata tctaaagtgt aacaactaaa gtaccctcac agaataagcaa atacccttct 720
gttctggaca tgggttcaaa tttgaatatg gaaataattt ccttggaagt ccctagaggc 780
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tgcagattta tgccttattt tttagcattt tttaaatgtt gggcttttca aggtgttttt 900
tgctttttat tagatctata taaataagtt aactagcaat ttagttttgt atttaagcta 960
cacttaatct ttttctttgg tgatatattt ttct 994

```

&lt;210&gt; 261

&lt;211&gt; 594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 538

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 261

```

gaattcggca ccagtggaga tccagctgaa ccatgccaac cgccaggctg cggaggcaat 60
caggaacctt cggaacaccc agggaatgct gaaggacaca cagctgcacc tggacgatgc 120
tctcagaggc caggacgacc tgaaagagca gctggccatg gttgagcgca gagccaacct 180
gatgcaggct gagatcgagg agctcagggc atccctggaa cagacagaga ggagcaggag 240
agtggccgag caagagctac tggatgccag tgagcgcgtg cagctcctcc acaccagaa 300
caccagcctc atcaacacca agaagaagct ggagacagac atttcccaa tccagggaga 360
gatggaagac atcgtccagg aagcccgcga cgcagaagag aaggccaaga aagccatcac 420
tgatgccgcc atgatggcgg aggagctgaa gaaggagcag gacaccagcg cccacctgga 480
gcggatgaag aagaacatgg agcagaccgt gaaggacctg cagcaccgtc tggacgangc 540
tgagcagctt ggcgtgaaag ggcgggcaag aagcagatcc agaaactgga ggct 594

```

&lt;210&gt; 262

&lt;211&gt; 594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 262

```

gaaaagggtg ctggagccaa aggcatagtc aggggttaatg ctcttttttc tttatcccaa 60
atcagatagt gtttaggctt tttcatcaaa tataaaaaacc cagcccagtt catggctcat 120
tcggcagcaa ccctgagacg ctttacagct ctagacccta aaaggtaaaa aggcctgtct 180
atgctcaata tacattttat taccatctct gcccgagaca ttaaataaaa ctccaaaaat 240
taaatccggc cctcaaacc cacaacagga cttaattgac ctccacctca aggtgtagaa 300
taataaaaaa aaaaagttgc aattccttgc ctccgctgtg agacaaacc cagccacatc 360
tccagcacac aagaacttcc aaacgcctga accacagcag ccaggcgttc ctccagaacc 420
tcctccccc gtagcttgct acatgtgccg gaaatctggc cactaggcca aggaatgcct 480

```

```
gcagccccgg attcctccta agccgtgtcc catctgtgcg ggaccccaact gaaaatcgga 540
ctgttcaact cacctggcag ccactctcag agaccctgga actctggccc aagg          594
```

<210> 263

<211> 506

<212> DNA

<213> Homo sapiens

<400> 263

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gaattcggca cgagcggaaa cttagggggcc acgtgagcca cggccacggc cgcataaggca 60
agcaccggaa gcaccccgcc gccgcggta atgctggtgg tctgcatcac caccggatca 120
acttcgacaa ataccacca ggctactttg ggaaagtgtg tatgaagcat taccacttaa 180
agaggaacca gagcttctgc ccaactgtca accttgacaa attgtggact ttggtcagtg 240
aacagacacg ggtgaatgct gctaaaaaca agactggggc tgctcccatc attgatgtgg 300
tgcgatcggg ctactataaa gttctgggaa agggaaagct cccaaagcag cctgtcatcg 360
tgaaggccaa attcttcagc agaagagctg aggagaagat taagagtgtt gggggggcct 420
gtgtcctggt ggcttgaagc cacatggagg gagtttcatt aaatgctaac tactttttaa 480
aaaaaaaaaa aaaaaaaaaa ctcgag          506
```

<210> 264

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 32

<223> n = A,T,C or G

<400> 264

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ggctcgtgaa cacacactga cagctatagg gnaggcggcg gcaccgtccc cgcttcccct 60
cggcgggcgg gtgtcccgtc gccggccctg aagtgaacca taaacatgtc ttgtgagagg 120
aaaggcctct cggagctgcg atcggagctc tacttctca tcgcccggtt cctggaagat 180
ggaccctgtc agcaggcgcc tcaggtgctg atccgcgagg tggccgagaa ggagctgctg 240
ccccggcgca ccgactggac cgggaaggag catcccagga cctaccagaa tctggtgaag 300
tattacagac acttagcacc tgatcaactg ctgcaaatat gtcacgactc aggacctctt 360
cttgaacaag aaattcctca aagtgttcct ggagtacaaa ctttattagg agctggaaga 420
cagtctttac tacgcacaaa taaaagctgc aagcatgttg tgtggaaagg atctgctctg 480
gctgcgttgc actgtggaag accacctgag tcaccagtta actatggtag cccaccagc 540
attgcggata ctctgttttc aaggaaagctg aatgggaaat acagacttga gcgacttgtt 600
```

<210> 265

<211> 534

<212> DNA

<213> Homo sapiens

<400> 265

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gccacggggg agaaagtgtc gcgtacagag accttcatca gtgacgtgct gcagcgggac 120
ttgcgaaaag tgctggacca tcgagacaag gtatatgagc agctggccaa ataccttcaa 180
ctgagaaatg tcattgagcg actccaggaa gctaagcact cggagttata tatgcagggtg 240
gatttggggt gtaacttctt cgttgacaca gtggtcccag ataacttcacg catctatgtg 300
gccctgggat atggtttttt cctggagttg acaactggcag aagctctcaa gttcattgat 360
cgtaagagct ctctcctcac agagctcagc aacagcctca ccaaggactc catgaatatc 420
aaagcccata tccacatgtt gctagagggg cttagagaac tacaaggcct gcagaatttc 480
ccagagaagc ctcaccattg acttcttccc cccatcctca gacattaaag agcc          534
```

<210> 266  
 <211> 552  
 <212> DNA  
 <213> Homo sapiens

<400> 266  
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 gccgcctagg atgaatatca tggacttcaa cgtgaagaag ctggcgggccg acgcaggcac 120  
 cttcctcagt cgcgccgtgc agttcacaga agaaaagctt ggccagggtg agaagacaga 180  
 attggatgct cacttagaga acctccttag caaagctgaa tgtacaaaaa tatggacaga 240  
 aaaaataatg aaacaaactg aagtgttatt gcagccaaat ccaaatgcc ggatagaaga 300  
 atttgtttat gagaaactgg atagaaaagc tccaagtcgt ataaacaacc cagaactttt 360  
 gggacaatat atgattgatg cagggactga gtttgggcca ggaacagctt atggtaatgc 420  
 ccttattaaa tgtggagaaa cccaaaaaag aattggaaca gcagacagag aactgattca 480  
 aacgtcagcc ttaaattttc ttactccttt aagaaacttt atagaaggag attacaaaac 540  
 aattgctaaa ga 552

<210> 267  
 <211> 551  
 <212> DNA  
 <213> Homo sapiens

<400> 267  
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 ggaagcgggt cggcagatcg agcgtgaggc ccagcagcag cagcacctgt accgggtgaa 120  
 catcaacaac agcatgcccc caggacgcac gggcatgggg accccgggga gccagatggc 180  
 ccccgtagc ctgaatgtgc cccgacccaa ccaggtagc gggcccggtca tgcccagcat 240  
 gcctcccggg cagtggcagc aggcgcccct tccccagcag cagcccattg caggcttgcc 300  
 caggcctgtg atatccatgc aggccagggc ggccgtgggt gggccccgga tgcccagcgt 360  
 gcagccacc aggagcatct caccagcgc tctgcaagac ctgctgcgga ccctgaagtc 420  
 gccagctcc cctcagcagc aacagcaggt gctgaacatt ctcaaataca acccgagct 480  
 aatggcagct ttcatcaaac agcgcacagc caagtacgtg gccaatcagc ccggcatgca 540  
 gccccagcct g 551

<210> 268  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<400> 268  
 gaattcggca ccaggggtcc ttgtgggcta gaagaatcct gcaaaaatgt ctctctatcc 60  
 atctctcgaa gacttgaagg tagacaaagt aattcaggct caaactgctt tttctgcaa 120  
 ccctgccaat ccagcaattt tgtcagaagc ttctgtcctt atccctcacg atggaaatct 180  
 ctatcccaga ctgtatccag agctctctca atacatgggg ctgagtttaa atgaagaaga 240  
 aatacgtgca aatgtggccg tggtttcttg tgcaccactt caggggcagt tggtagcaag 300  
 accttcagat ataaactata tgggtggctcc tgtaactggt aatgatgttg gaattcgtag 360  
 agcagaaatt aagcaaggga ttctgtgaagt catttttgtt aaggatcaag atggaaaaat 420  
 tggactcagg cttaaataca tagataatgg tataatttgt cagctagtcc aggttaattc 480  
 tccagcctca ttggttggtc tgagatttgg ggaccaagta cttcagatca atggtgaaaa 540  
 ctgtgcagga tggagctctg ataaagcgca caa 573

<210> 269  
 <211> 500  
 <212> DNA  
 <213> Homo sapiens

<400> 269  
 gaatcggcac caggaaacct ttattagcag agatagctgg cttggatcag attacgggga 60



```

atgtggggga gccatgaaga aactaactaa aggggagcct ttggggacca gggggagaca 120
agtcactatt ttgagggaga aagctctgga ttgattctga caggacactt gagtgtgaac 180
tgtccaagct aagcctctgg gtgtgtagag agagccctta cagatagata gcacctttgc 240
tttcagagtg gaaggactag ccactaagga ccagaccaag atgcatgtag gtcactgaca 300
agcacctgat gaagaggagg ggtctcctcc aagtttgtgt ttggaactcc tcctgtgttc 360
aatttcctaa aagccataat ccagcaagct gaactcatga gaaggctctgc ttcattgttga 420
gcatggaaaga cagaacacag acggaaactg cagtgatggt gtgaagacac cacggatagg 480
ttagggggcag tgaggaggaa                    500

```

&lt;210&gt; 270

&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 270

```

gaattcggca cgagaagact acaatctcca gggaaacctg gggcgtctcg cgcaaactgc 60
cataactgaa agtagctaag gcaccccagc cggagggaagt gagctctcct ggggcgtggg 120
tgttcgtgat ccttgcatct gttacttagg gtcaaggctt gggctcttgc ccgcagaccc 180
ttggggacgac ccggccccag cgcagctatg aacctggagc gagt                    224

```

&lt;210&gt; 271

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 271

```

gaattcggca cgaggctggg ccggggccga gcggatcgcg ggctcgggct gcggggctcc 60
ggctgcgggc gctgggccgc gaggcgcgga gcttgggagc ggagcccagg ccgtgccgcg 120
cggcgccatg aagggcaagg aggagaagga gggcgccgca cggctgggcg ctggcgggcg 180
aagccccgag aagagcccga gcgcgcagga gctcaaggag cagggcaatc gtctgttcgt 240
gggcccgaag taccgggagg cggcggcctg ctacggccgc gcgatcacc ccgaacccgct 300
ggtgggccgtg tattacacca accgggcctt gtgctacctg aagatgcagc agcacgagca 360
ggccctggcc gactgccggc gcgccttgga gctggacggg cagtctgtga aggcgcactt 420
cttcctgggg cagtgccagc tggagat                    447

```

&lt;210&gt; 272

&lt;211&gt; 606

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

```

gcaactactt atattccttt gatggataat gctgactcaa gtccctgtgg agataagaga 60
gaggttattg atttgcttaa acctgaccaa gtagaaggga tccagaaatc tgggactaaa 120
aaactgaaga ccgaaaactga caaagaaaat gctgaagtga agtttaaaga ttttcttctg 180
tccttgaaga ctatgatgtt ttctgaagat gaggctcttt gtgtttaga cttgctaaag 240
gagaagtctg gtgtaataca agatgcttta aagaagtcaa gtaagggaga attgactacg 300
cttatacatc agcttcaaga aaaggacaag ttactcgctg ctgtgaagga agatgctgct 360
gctacaaaagg atcgggtgtaa gcagttaacc caggaaatga tgacagagaa agaaagaagc 420
aatgtgggta taacaaggat gaaagatcga attggaacat tagaaaagga acataatgta 480
tttcaaaaca aaatacatgt cagttatcaa gagactcaac agatgcagat gaagtttcag 540
caagtctctg agcagatgga ggcagagata gctcacttga agcaggaaaa tgggtatact 600
ggagaa                    606

```

&lt;210&gt; 273

&lt;211&gt; 598

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 273

```

gaattcggca ccaggccccg tccccgcggtc gcagctccag ccgcctcctc cgcgcagccg 60
ccgcctcagc tgctcgctct gtgggtcggt cctctccggc acttgggctc cagtgcgcc 120
ctccaagccc ttcaggccgc cccagtgtcc tcctccttct ccggccagac ccagccccgc 180
gaagatggtg gaccgcgagc aactggtgca gaaagccccg ctggccgagc aggcggagcg 240
ctacgacgac atggccgcgg ccatgaagaa cgtgacagag ctgaatgagc cactgtcgaa 300
tgaggaaacga aaccttctgt ctgtggccta caagaacggt gtggggggcac gccgctcttc 360
ctggagggtc atcagtagca ttgagcagaa gacatctgca gacggcaatg agaagaagat 420
tgagatggtc cgtgcgtacc gggagaagat agagaaggag ttggaggctg tgtgccagga 480
tgtgtgagc ctgctggata actacctgat caagaattgc agcgagaccc agtacgagag 540
caaagtgttc tacctgaaga tgaaagggga ctactaccgc tacctggctg aagtggcc 598

```

&lt;210&gt; 274

&lt;211&gt; 536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 274

```

gcaccaagag actaaacaag aaagtggatc aggaagaag aaagcttcat caaagaaaca 60
aaagacagaa aatgtcttcg tagatgaacc ccttattcat gcaactactt atattccttt 120
gatggataat gctgactcaa gtcctgtggt agataagaga gaggttattg atttgcttaa 180
acctgaccaa gtagaaggga tccagaaatc tgggactaaa aaactgaaga ccgaaactga 240
caaagaaaat gctgaagtga agtttaaaaga ttttcttctg tccttgaaga ctatgatgtt 300
ttctgaagat gaggtctctt gtgtttaga cttgctaaag gagaagtctg gtgtaataca 360
agatgcttta aagaagtcaa gtaagggaga attgactacg cttatacatc agcttcaaga 420
aaaggacaag ttactcgctg ctgtgaagga agatgctgct gctacaaagg atcgggtgtaa 480
gcagttaacc caggaaatga tgacagagaa agaaagaagc aatgtggtta taacaa 536

```

&lt;210&gt; 275

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 379

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 275

```

gaattcggca ccagggtcgc ggttcttggt tgtggatcgc tgtgatcgtc acttgacaat 60
gcagatcttc gtgaagactc tgactggtaa gaccatcacc ctcgagggtg agcccagtga 120
caccatcgag aatgtcaagg caaagatcca agataaggaa ggcatccctc ctgaccagca 180
gaggctgatc tttgctggaa aacagctgga agatgggcgc accctgtctg actacaacat 240
ccagaaagag tccaccctgc acctggtgct ccgtctcaga ggtgggatgc aaatcttcgt 300
gaagacactc actggcaaga ccatcaccct tgagggtggag ccagtgaca ccatcgagaa 360
cgtcaaagca aagatccang acaagggaagg cattcctcct gaccagcaga ggttgatctt 420
tgccggaaag cagctggaag atgggcgcac cctgtctgac tacaacatcc agaaagagtc 480
taccctgcac ctgg

```

&lt;210&gt; 276

&lt;211&gt; 484

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 276

```

ggcttttaac cagaagtcaa acctgttcag acagaaggca gtcacagcag aaaaatcttc 60
agacaaaagg cagtcacagg tgtgcaggga gtgtgggcga ggcttttagca ggaagtca 120
gctcatcata caccagagga cacacacagg agaaaagcct tatgtctgcg gagagtgtgg 180

```

```

gcgaggccttt atagttgagt cagtcctccg caaccacctg agtacacact ccggggagaa 240
accttatgtg tgcagccatt gtgggcgagg ctttagctgc aagccatacc tcatcagaca 300
tcagaggaca cacacaaggg agaaatcggt tatgtgcaca gtgtgtgggc gaggctttcg 360
tgaaaagtca gagctcatta agcaccagag aattcacacg ggggataagc cttatgtgtg 420
cagagattga ggccgaggct ttgtaaagga gatcatgtct caacacacac cagaggatta 480
catt 484

```

&lt;210&gt; 277

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 277

```

gcttgaggct gccaatcaga gcttggcaga gctgagagat cagcggcagg gggagcgcct 60
ggaacatgca gcagctttgc gggccctaca agatcaggta tccatccaga gtgcagatgc 120
acaggaacaa gtggaagggc ttttggctga gaacaatgcc ttgaggacta gcctggctgc 180
cctggagcag atccaaacag caaagaccca agaactgaat atgctccggg aacagaccac 240
tgggctggca gctgagttgc agcagcagca ggctgagtag gaggacctta tgggacagaa 300
agatgacctc aactcccagc tccaggagtc attacgggcc aatagtcgac tgctggaaca 360
acttcaagaa atagggcagg agaaggagca gttgacctag gaattacagg aggcctcgga 420
gagtgcggag aagcgggaag ccatgcttgg atgagctagc aatggaaacg ctgcaagaga 480
agtcccacac aaggaagagc ttgggagcag ttc 513

```

&lt;210&gt; 278

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 278

```

gaattcggca ccagccaagg ccctgtccct ggctcgggcc cttgaagagg ccttggaagc 60
caaagaggaa ctcgagcggg ccaacaaaat gctcaaagcc gaaatggaag acctggtcag 120
ctccaaggat gacgtgggca agaactgcca tgagctggag aagtccaagc gggccctgga 180
gacccagatg gaggagatga agacgcagct ggaagagctg gaggacgagc tgcaagccac 240
ggaggacgcc aaactcggc tggaaagtcaa catgcaggcg ctcaagggcc agttcgaaag 300
ggatctccaa gcccgggacg agcagaatga ggagaagagg aggcaactgc agagacagct 360
tcacgagtat gagacggaac tggaaagacga gcgaaagcaa cgtgccctgg cagctgcagc 420
aaagaagaag ctggaagggg acctgaaaga cctggagctt caggccgact t 471

```

&lt;210&gt; 279

&lt;211&gt; 497

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 457, 471

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 279

```

gaattcggca cgaggccaca gaggcggcgg agagatggcc ttcagcgggt cccaggctcc 60
ctacctgagt ccagctgtcc ccttttctgg gactattcaa ggaggctctcc aggacggact 120
tcagatcact gtcaatggga ccgttctcag ctccagtggg accagggttg ctgtgaactt 180
tcagactggc ttcaagtggaa atgacattgc cttccacttc aacctcgggt ttgaagatgg 240
agggtacgtg gtgtgcaaca cgaggcagaa cggaagctgg gggcccgagg agaggaagac 300
acacatgcct ttccagaagg ggatgccctt tgacctctgc ttcttggtgc agagctcaga 360
tttcaagggt atggtgaacg ggatcctctt cgtgcagtag ttccaccgag tgccttcca 420
ccgtgtggac accatctccg tcaatggctc tgtgcanctg tctacatca ncttccagac 480
ccagacagtc atccaca 497

```

<210> 280  
<211> 544  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 451  
<223> n = A,T,C or G

<400> 280  
gaattcggca ccagaatagg aacagctccg gtctacagct cccagcgtga ggcagcgaga 60  
agacgggtga tttctgcatt tccatctgag gtaccgggtt catctcacta gggagtgcc 120  
gacagtgggc gcaggccagt gtgtgtgcgc accgtgcgcg agccgaagca gggcgaggca 180  
ttgcctcacc tgggaagcac aaggggtcag ggagttccct ttccgagtca aagaaagggg 240  
tgacggacgc acctggaaaa tcgggtcact cccacccgaa tattgtgctt ttcagaccgg 300  
cttaagaaac ggcgcaccac gagactatat cccacacctg gctcagaggg tcctacgcc 360  
acggaatctc gctgattgct agcacagcag tcttagatca aactgcaagg ggggcaacga 420  
ggctggggga ggggcgccc ccattgccc ngcttgctta ggtaaacaaa gcagccggga 480  
agcttgaact ggggtggagcc caccacagct caaggaggcc tgcctgcctc tgtagctcca 540  
cctc 544

<210> 281  
<211> 527  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 456  
<223> n = A,T,C or G

<400> 281  
gaattcggca cgaggcctcg ctacagctcca acatggcaaa aatctccagc cctacagaga 60  
ctgagcgggtg catcgagtcc ctgattgctg tcttcagaa gtatgctgga aaggatggtt 120  
ataactacac tctctccaag acagagtcc taagcttcat gaatacagaa ctactgcct 180  
tcacaaagaa ccagaaggac cctggtgtcc ttgaccgat gatgaagaaa ctggacacca 240  
acagtgatgg tcagctagat ttctcagaat ttcttaatct gattggtggc ctactatgg 300  
cttgccatga ctcttctctc aaggctgtcc cttcccagaa gcggacctga ggacctttg 360  
gccttgccct tcaaaccac cccctttcct tccagccttt ctgtcatcat ctccacagcc 420  
caccatccc ctgagcacac taaccacctc atgcanggcc cccctgccaa tagtaataaa 480  
gcaatgtcct tttttaaacc atgaaaaaaa aaaaaaaaaa actcgag 527

<210> 282  
<211> 514  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 494  
<223> n = A,T,C or G

<400> 282  
ggaagactgg agccttttgcg gcggcgctgc ccctccctg gtccccgcga gctcggaggg 60  
cccggctggt gctgcggggg ccccgaggag ttgaaaacta agcatgggga agagctgcaa 120  
ggtggtcgtg tgtggccagg cgtctgtggg caaaacttca atcctggagc agcttctgta 180

```

tgggaaccat gtagtgggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240
cattgagaca gaccgggggg tgcgagagca ggtgcgtttc tatgacaccc gggggctccg 300
agatggggcc gaactgcccc gacactgctt ctcttgcaact gatggctacg tcctggctca 360
tagcacagat agcagagagt cttttcagcg tgtggagctg ctcaagaagg agattgacaa 420
atccaaggac aagaaggagg tcaccatcgt ggtccttggc aacaagtgtg acttacagga 480
gcagcggcgt gtanacccaa atgtggctca acac 514

```

&lt;210&gt; 283

&lt;211&gt; 484

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

```

gggcgggcgg tggacagtca tggcggcccg gcgcggggct ctcatagtgc tggagggcgt 60
ggaccgcgcc gggaagagca cgcagagccg caagctggtg gaagcgtgt gcgccgcggg 120
ccaccgcgcc gaactgctcc ggttcccggg aagatcaact gaaatcggca aacttctgag 180
ttcctacttg caaaagaaaa gtgacgtgga ggatcactcg gtgcacctgc ttttttctgc 240
aaatcgctgg gaacaagtgc cgtaatttaa ggaaaagtgg agccagggcg tgacctcgt 300
cgtggacaga tacgcatttt ctggtgtggc cttcaccggg gccaaaggaga atttttccct 360
agactggtgt aaacagccag acgtgggcct tcccaaaccg gacctggtcc tgttcctcca 420
gttacagctg gcggatgctg ccaagcgggg agcgtttggc catgagcgt atgagaacgg 480
ggct 484

```

&lt;210&gt; 284

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

```

gaattcggca cgaggcggag gccgcggagg ctctctggtc cttcagcacc cctcgggccc 60
acgcaccac gccctcacc ccccgagagc cgaaaatgga cccaagtggg gtcaaagtgc 120
tggaacagc agaggacatc caggagagg gcgagcagg cctagaccga taccaccgct 180
tcaaggaact ctcaaccctt aggcgtcaga agctggaaga ttctatcga ttccagttct 240
ttcaaagaga tgctgaagag ctggagaaat ggatacagga aaaacttcag attgcatctg 300
atgagaatta taaagaccca accaacttgc agggaaagct tcagaagcat caagcatttg 360
aagctgaagt gcaggccaac tcaggagcca ttgttaagct ggatgaaact ggaaacctga 420
tgatctcaga agggcatttt gcatctgaaa ccatacggac ccgtttgatg gagctgcacc 480
gccagtggga attacttttg gagaagatgc gaga 514

```

&lt;210&gt; 285

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

```

gaattcggca cgaggccggg ctccaccgcg catcctgctc cactctggcg accgcccccg 60
gggccccgc cgcgggcgcg gcgcccgcga tgggcgagga ggactactat ctggagctgt 120
cgcagcggcc ggtgcagtgc gagaaggcga accctgtcaa ctgcgtcttc ttgatgagg 180
ccaacaagca ggtttttgct gttcgatctg gtggagctac tggcgtggta gttaaaggcc 240
cagatgatag gaatcccatc tcatttagaa tggatgacaa aggagaagtg aagtgcatta 300
agttttcctt agaaaataag atattggctg ttcagaggac ctcaaagact gtggattttt 360
gtaattttat ccctgataat tcc 383

```

&lt;210&gt; 286

&lt;211&gt; 943

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

```

gaattcggca ccagggccgt ggcggaggag gagcgctgca cgggtggagcg tcggggccgac 60
ctcacctacg cggagtctgt gcagcagtag gtgcgcccct gatcgcgagag gtcgcgtcct 120
gttcaccggc ccgtctgccc cgaccgccc aaggcgcctt cccctgacct cgcgcgcacg 180
cgtggggctg gggcggcgag gctggcggtc cggcctggcc gcgactctgc cttctttcc 240
agaggttccg ggccctgtgc tcccgcgaca ggttgctggc ttcgtttggg gacagagtgg 300
tccggctgag caccgccaac acctactcct accacaaagt ggacttgccc ttccaggagt 360
atgtggagca gctgctgcac ccccaggacc ccacctccct gggcaatggg gaggcagccc 420
taggcggcgg taggggtgg ggacgcttg agtctccagg tgccaggatc cctgtccccg 480
ccgtctctgt tggcagacac cctgtacttc ttcggggaca acaacttcac cgagtgggcc 540
tctctctttc ggcaactatc cccaccccca tttggcctgc tgggaaccgc tccagcttac 600
agcttttgaa tcgcaggagc tggctcgggg gtgcccttcc actggcatgg acccggttac 660
tcagaagtga tctacggtcg taagcgctgg ttcttttacc cacctgagaa gacgccagag 720
ttccacccca acaagaccac actggcctgg ctccgggaca cataccagc cctggcaccg 780
tctgcacggc ccctggagtg taccatccgg gctggtagg tgctgtactt ccccgaccgc 840
tggtggcatg ctacgctcaa ccttgacacc agcgtcttca tctccacctt cctcggctag 900
ccaaaacagc tggcaggact gccggtcaca caccagcacg tcc 943

```

&lt;210&gt; 287

&lt;211&gt; 1143

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

```

gaattcggca cgagggaaga acagctgttg gaacaacaag aatatttaga aaaagaaatg 60
gaggaagcaa agaaaatgat atcaggacta caggccttac tgctcaatgg atccttacct 120
gaagatgaac aggagaggcc cttggccctc tgtgaaccag gtgtcaatcc cgaggaacaa 180
ctgattataa tccaaagtgc tctggatcag agtatggagg agaatacagg cttaaagaag 240
gaactgctga aatgtaaaaca agaagccaga aacttacagg ggataaagga tgccttgacg 300
cagagattga ctacgcagga cacatctgtt cttcagctca aacaagagct actgagggca 360
aatatggaca aagatgagct gcacaaccag aatgtggatc tgcagaggaa gctagatgag 420
aggaaccggc tcttgggaga atataaaaaa gagctggggc agaaggatcg ccttcttcag 480
cagcaccagg ccaagttaga agaagcactc cggaactct ctgatgtcag ttaccaccag 540
gtggatctag agcgagagct agaacacaaa gatgtcctct tggctcactg tatgaaaaga 600
gaggcagatg aggcgaccaa ctacaacagt cacaactctc aaagcaatgg ttttctcctt 660
ccaacggcag gaaaaggagc tacttcagtc agcaacagag ggaccagcga cctgcagctt 720
gttcgagatg ctctccgcag cctgcgcaac agcttcagtg gccacgatcc tcagcaccac 780
actattgaca gcttggagca gggcatttct agcctcatgg agcgcctgca tgttatggag 840
acgcagaaga aacaagaaag aaaggttcgg gtcaagtcac ccagaactca agtaggtagt 900
gaataccggg agtcctggcc ccctaactca aagttgcctc actcacagag ctctccaact 960
gtcagcagca cctgtactaa agtgctctat ttcactgacc ggtaacttac gcccttcatg 1020
gtcaatatac caaagagggt ggaggagggt acgttaaagg atttttaaagc agctattgat 1080
cggaaggaa atcaccggta tcacttcaaa gcactggatc ctgagtttgg cactgtcaaa 1140
gag 1143

```

&lt;210&gt; 288

&lt;211&gt; 881

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 288

```

gtgagagcgg gccgaggaga ttggcgacgg tgtcgcccg gttttcggtg gcgggtgcct 60
gggctgggtg gaacagccgc ccgaaggaa caccatgatt tcggccgcgc agttgttggg 120
tgagttaatg ggccgggacc gaaacctag cccggacgag aagcgcagca acgtgcggtg 180
ggaccacgag agcgtttgta aatattatct ctgtggtttt tgtcctgcgg aattgttcac 240
aaatacacgt tctgatcttg gtccgtgtga aaaaattcat gatgaaaatc tacgaaaaca 300
gtatgagaag agctctcgtt tcatgaaagt tggctatgag agagattttt tgcgatactt 360
acagagctta cttgcagaag tagaacgtag gatcagacga ggccatgctc gtttggcatt 420

```

```

atctcaaaac cagcagtctt ctggggccgc tggcccaaca ggcaaaaatg aagaaaaaat 480
tcaggttcta acagacaaaa ttgatgtact tctgcaacag attgaagaat tagggctctga 540
aggaaaagta gaagaagccc aggggatgat gaaattagtt gagcaattaa aagaagagag 600
agaactgcta aggtccacaa cgtcgacaat tgaaagcttt gctgcacaag aaaaacaaat 660
ggaagtttgt gaagtatgtg gagccttttt aatagtagga gatgccagat cccgggtaga 720
tgaccatttg atgggaaaac aacacatggg ctatgccaaa attaaagcta ctgtagaaga 780
attaaaagaa aagttaagga aaagaaccga agaacctgat cgtgatgagc gtctaaaaaa 840
ggagaagcaa gaaagagaaa aaaaaaaaaa aaaaactcga g 881

```

&lt;210&gt; 289

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

```

gaattcggca cgagggaactg tggtttccag gaatgggtggc gtctcacgct tcttggtgctt 60
tttccttttg ggcctccgag cggctggggg tgggggaactg gccaggagag tccctgtaaa 120
catttggaact tgggctgggg caggggctgg tgttgggcaa agctgggggt ccaggctgga 180
gaagcagggg cccctccaga cgcagccttg ggagactcag catgtgcccc cctccccctca 240
tcacagaaca agacaatggt taaaaaccag aacagatgcc cagaaggggg taccatggcc 300
attaccagca tctcagacaa gggcaggctt caaacaggga ggcctgtggc aacccctccc 360
ctacgtctgg agctgagggg acagggggag ctgagaacaa agagaggaaa gaggagaaaa 420
gcggcggggg aacaggcggg gagcgtgatc ttcttgcccc catcttcctc aggggttggg 480
gggtacaaaag tcggcggttg cccatcccgc caggccccgc tgcccctcag aagaggccgc 540
agtccctcag gttgttcttg atgatgacat cggtgacggc gtcaaacacg aactgcacgt 600
tcttggtgtc ggtggcgcac gtgaagtgcg tgtagatctc cttggtgtct ttgcgcttat 660
tcaggtcctc aaacttactc tggatgtagc tggctgcctc atcatatttg ttggcccctg 720
tatactcagg gaagcagatg gtcaggggac tgtgtgtgat cttctcctca aacagggtcct 780
tcttggtgag gaagaggatg atggacgtgt ctgtgaacca cttgttggtg cagatgctat 840
cgaatagctt catgctctca tgcattcggt tcattcctc gtccctcagc agcaccaagt 900
cataggcgct caaggctacg cagaagatga tggctgtgac gccctcaaa gagtggatcc 960
acttcttccg ctcagaccgc tgaccac 987

```

&lt;210&gt; 290

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 233, 247

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 290

```

gattcaagat gtacccatt gactttgaga aggatgatga cagcaacttt catatggatt 60
tcatcgtggc tgcattcaac ctccgggcag aaaactatga cattccttct gcagaccggc 120
acaagagcaa gctgattgca gggaagatca tcccagccat tgccacgacc acagcagccg 180
tggttgccct tgtgtgtctg gagctgtaca aggttgtgca ggggcaccga cancttgact 240
cctacangaa tgggtgcctc aacttgagcc ctgcctttct ttggtttctc tgaacccctt 300

```

&lt;210&gt; 291

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> 248, 257, 275, 295, 306, 337

<223> n = A,T,C or G

<400> 291

```
aaccaagctg ccaccggggg tggatcggat gcggcttgag aggcacatctgt ctgccgagga 60
cttctcaagg gtatttgcca tgtcccctga agagtttggc aagctggctc tgtggaagcg 120
gaatgagctc aagaagaagg cctctctctt ctgatggccc ccacctgctc cgggacggcc 180
cccttaccctc tgctgcttca gggtttttcc ccggcggggtt gggaggggca ggaggtgggg 240
tggaaatngg gtgggcncct ttctcaggt agagnggggg gccaaaacct ctgcngtccc 300
cggagngagc tatggacttt cttccccctc acaaggntgg gggcctcctg ct 352
```

<210> 292

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 19, 353, 415, 431, 474

<223> n = A,T,C or G

<400> 292

```
cgcggtggct gcgcactcng cctgagaaac tcggcaagcg cgcagtgtcg actccccggt 60
ctatgccagg cgcatctcag ctaatccaaa agtaaatgag aaacttagaa aaagattgcc 120
aattccaaat caacatattt agagaaaatt ggaaaaggag aagcttacta cagctttatt 180
tgaggacttt ttaaagaacg ctgggttcta tctgtgagct gcaaatcttg gagcaaaaac 240
cagagacatt gccagagcaa acaagaacag aaatacaaat ggagaactgg tcaaaagaca 300
taaccacacag ttatcttgaa caagaaacta cggggataaa taaaagtacg canccagatg 360
agcaactgac tatgaattct gagaaaagta tgcacgggaa atccaactgaa ttagntaatg 420
aaataacatg ngagaacaca gaatggccag gggcagagat caacgaattt tcanatcatc 480
agttcttatc cagatgatga gtctgtttac t 511
```

<210> 293

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 125, 249, 264, 282, 291, 381, 399, 488

<223> n = A,T,C or G

<400> 293

```
gataaaaaga actttaatgg aaggcactgt tgtccaaaat cacataaagg gtaagagccc 60
acacggtacc accctgctct cctacttctc aaaccacat ccaccacca gacaggaggg 120
tgcanacccc acaggaaatt acctcccgga gcactgactg atatttttcc ttaaaacaaa 180
aaaatggctg tctcagacta ataacagaac atcttaagag ctataccagc tattacagcc 240
tggtaatana agcagctttc taanaattcc caagtttata anaggcccaa naaatgcatt 300
tattctgttg tctattaagc ctccatgaca aggagaaagt tatgagtaaa tccttggttc 360
atcaggagtt aagagctgtg ngcctcatga ggagttaana gctgtgtgca taagcaggtt 420
caagaaacaa actcctgttt gtttgctctt ttgatgggtc aaaaacattc agctgctttc 480
acctctanga caaaatgctt aaagaattta ctctcatcac cttggg 526
```

<210> 294

<211> 601

<212> DNA

<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 55, 285, 489, 519, 582, 590

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 294

```

acttttaaaag ccaaatatat ttttaaaaga tcatgcttat aataagtaaa ttacncatta 60
aggaaacatc aaaataaagt agatgaataa aaaggcacac tcgaaaaatt tgagcgcaga 120
aaggacagtt ctttttgttt tgtttctaata gtcggaagaa aaagaaagag atatattaaa 180
atcattgttt tcaagtgaag gtttctgtca gttgaagtag ttagcaatgg cttcttttct 240
cccgtgtcca aagcaggctc ttcttgcgct gacttctgag gagnggttca gtcctctgcc 300
atgtataggc gatacatcaa ggcgacggcc actgcagaga tggcagggat caccagttg 360
gtccaccaac tggaactaga atcaatagta gtgataagag tttccggagg cttgtttaac 420
tttggtctgt catctggatg gagctcccca atgatgaatg ttttgacat ttccctggca 480
tctgtagant gcccgcacatc ctcaaagttc tcagtagcng tcacctccac ttgttccctt 540
aaaacttctt cccaccagg atgctcttcc agaaatttgg gncaaatcgn acaccttgtg 600
g                                                                 601

```

&lt;210&gt; 295

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

```

cccttagccc caagggccct gggggcagcc accctcccgc ctgtcggccc gtagatttat 60
caagggtgtt atggggccag ctttgggggg ccagtcgccga tgcaactttga ggggtgttgg 120
agaggggact ccccactcg cacttaactc aacggctctc gggccctggg gctgttttta 180
ccatgtttgt ttttgaagct caggtgtctc acgtctgggc tgcaccaggc gaagagagaa 240
attaaagatt tgaggttttt cc                                                                 262

```

&lt;210&gt; 296

&lt;211&gt; 598

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 262, 296, 329, 360, 530, 534, 536, 568, 593, 595

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 296

```

gttagaaciaa ctacagcaaaa taaaattcct gtttattgtt ggacaacatt gtttcacaca 60
tacatcaaac aggccaaaaa aaataaacag caacttcata gacaaaaaag gaaaaaaaaa 120
gaaacctttt atctttggcc tttttaacca tctcatacaa accaactact tatagtacag 180
ctaagtacat acacaaaaaa gttactggaa tgctcggaat aagattgttt ttctgttgtc 240
atttttgctt tttttacaag gntttttttc tcctttgaga ttataatgaa catggncaca 300
ccacaagtaa agtcagaagt aggacagana acgctccgaa ggctgggttg gtcacccgan 360
atcattaaaa atggctgacc ctaacaatat gtacaaaaat ataaaatgta aataaaaaat 420
acaaacaaat ttccttttta aagtactttt aagaaaaaaa gcagggcctt ggaagttttg 480
gttctttttt cctcccctgt tgcaaatctt catgggttgg gttgggtggg gganancccg 540
tgtcatctgc ggggtggcact gccccggngg gcgggcgggc ctctctctcg aangngac 598

```

&lt;210&gt; 297

&lt;211&gt; 509

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 297

```

agaacacagg  tgcgtgaaa  actacccta  aaagccaaa  tgggaaagga  aaagactcat  60
atcaacattg  tcgtcattgg  acacgtagat  tcgggcaagt  ccaccactac  tggccatctg  120
atctataaat  gcggtggcat  cgacaaaaga  accattgaaa  aatttgagaa  ggaggctgct  180
gagatgggaa  agggctcctt  caagtatgcc  tgggtcttgg  ataaactgaa  agctgagcgt  240
gaacgtggta  tcaccattga  tatctccttg  tggaaatttg  agaccagcaa  gtactatgtg  300
actatcattg  atgcccaggg  acacagagac  tttatcaaaa  acatgattac  agggacatct  360
caggctgact  gtgctgtcct  gattgttgct  gctggtgttg  gtgaatttga  agctggtatc  420
tccaagaatg  ggcaggaccc  gagagcatgc  cttcttggct  tacacactgg  gtgtgaaaca  480
actaattgtc  ggtgttaaca  aaatggatt  509

```

&lt;210&gt; 298

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 105, 108, 136, 148, 149, 237, 243, 250

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 298

```

gggacggggg  aaaggagacg  cttcttcctc  ttgctgctct  tctcgttccc  gagatcagcg  60
gcgcgcggtga  ccgcgagtg  gtcggcaccg  tctccggctc  cgggngcnaa  caatgctgac  120
tgatagcgga  ggcggnggca  cctccttnna  ggaggacctg  gactctgttg  ctccgcgatc  180
cgccccagct  ggggcctcgg  agccgcctcc  gccgggaggg  gtcggtcttg  ggatccncac  240
cgngaggctn  tttggggagg  gcgggcc  267

```

&lt;210&gt; 299

&lt;211&gt; 121

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 299

```

ggcacgaggg  ccctcggagc  tcgtttccag  atcgaggtaa  gagggacttt  cttaaaggcc  60
tagtctatgg  gatggggcgg  cggagggaat  tttttgagaa  ataaaaatgaa  gctgcagtg  120
a  121

```

&lt;210&gt; 300

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 300

```

aaggtgcaca  gtatttgatg  caggctgctg  gtcttggtcg  tatgaagcca  aacacacttg  60
tccttggaat  taagaaagat  tggttgcaag  cagatatgag  ggatgtggat  atgtatataa  120
acttatttca  tgatgctttt  gacatacaat  atggagtagt  ggttattcgc  ctaaaagaag  180
gtctggatat  atctcatctt  caaggacaag  aagaattatt  gtcatcaca  gagaaatctc  240
ctggcaccaa  ggatgtggta  gtaagtgtgg  aatatagtaa  aaagtcogat  ttagataact  300
ccaaaccact  cagtgaataa  ccaattacac  acaaagttga  ggaagaggat  ggcaagactg  360
caactcaacc  actgttgaaa  aaagaatcca  aaggccctat  tgtgccttta  aatgtagctg  420
accaaaagct  tcttgaagct  agtacacagt  ttcagaaaaa  acaaggaaag  aatactattg  480
atgtctggtg  gctttttgat  gatggagggt  tgaccttatt  gataacctac  ctt  533

```

&lt;210&gt; 301

&lt;211&gt; 560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 227, 324, 343, 351, 408, 412, 431, 453, 502, 516, 544

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 301

```

ataaatgatc ctttttattg taagtaatgc gcaacactgg cctggctttg cactgcaagc 60
cctcgggtcaa gatatagtc aataactatg gctgcaggtt ccacagttcc acaataacca 120
tggtcgcacg atccacaatt cagacacaga catagagctg ggggtgggtgg aaggggcagg 180
agggtggcag agtgccgact gtccccagcc ctggcctctc catgcanagt tggcccaggc 240
agacacacccc catggaatga tgagaaagtg acggcacggc cccttcccac agcaagcctg 300
gggctgccag gaactgccct tcanaacctt tgggcccagg tcnccctgaa nccccacaac 360
tttttatctg gaataagtat taaaaaacia taaattaaagc aaacaacntg gnccttgaag 420
gatgttgacc nacatggtcc acagtttttg gcncaaaaaa ataagggtg gtttgctttt 480
tttggaaggc agggtttgtg gnttggcttt caaatnattt tcaaaccatt cccagggag 540
gganaacccc cgggggggaa                    560

```

&lt;210&gt; 302

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 51, 157, 240, 258, 304, 316, 378, 391, 475, 576, 580

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 302

```

gcaaagttac aaattttattg gtctggaaat aaatacaaat atctcattaa naaactcctc 60
tggaagact tgtgcacaat agtttcccat ccgtactcag cctctcttgc cccgatcccc 120
gacttttcta ctcaaggcca gggaaggcct ccaaggngat gggcggcagg taacagagtc 180
ttgcctctca cgccacctgg aaggctggac tacttcctcc tcccaactgc ggggtccan 240
aaatcctcgg gtcccagngg ctgacttaca atattcaatt cactctgacc aaacttccta 300
tganaaaatc cacgngagc caaaatgaaa agtacaaggc agtagtacag gaacctggca 360
gccgactgg ccgccanaa acgtcagtgg ngctgcccc ttcggcgaaa ggtagggag 420
caggaaaaga ggaagcagga gaggggaagg aagtcccatg gaatatgtat tccanaatcc 480
ttacattttc tcagccaccg ctccccacgt gagttccac cccacccccg acaagaagca 540
aagagtcttg aggatccaag aacgtgaccg ggtcanacan gttcagctac tgagttcac 599

```

&lt;210&gt; 303

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

```

cggagtgtga acgctccact gactgataga gcgaccggcc gaccatggcg cccggagtgg 60
cccgcgggcc gacgccgtac tggaggttgc gcctcgggtg cgcgcgctg ctctgtctgc 120
tcaccccggt ggccgcccgc caggagcctc ccgagctgc ttgttctcag aacacaaaca 180
aaacctgtga agagtgcctg aagaacgtct cctgtctttg gtgcaacact aacaaggctt 240
gtctggacta cccagttaca agcgtcttgc caccggcttc cttttgtaaa ttgagctctg 300
cacgtggtgg agtttgttgg gtgaactttg aggcgctgat catcaccatg tcggtagtgc 360
ggggaaccct cctcctgggc attgccatct gctgctgctg ctgctgcagg aggaagagga 420
gccggaagcc ggacaggagt gaggagaagg ccatgcgtga gcgggaggag aggcggatac 480
ggcaggagga acggagagca gagatgaaga caagacatga tgaaatcaga aaaaaatatg 540
gcctgtttta agaagaaaac ccgtatgcta gatttgaaaa caactaaagc g 591

```

&lt;210&gt; 304

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 411

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 304

```

gctggacgga gacctgctgg aggaggagga gctggaggaa gcagaggagg aggaccggtc 60
gtcgtgctg ctgctgtcgc cgcccgcggc caccgcctct cagacccagc agatcccagg 120
cgggtccctg gggctctgtc tgctgccagc cgccagggtc gatgcccggg aggcggcggc 180
ggcggcgggg gtgctgtacg gaggggacga tgcccagggc atgatggcgg cgatgctgtc 240
ccacgcctac ggccccggcg gttgtggggc ggcggcgggc gccctgaacg gggagcaggc 300
ggccctgtctc cggagaaaaga gcgtcaacac caccgagtgc gtcccgggtc ccagctccga 360
gcacgtcgcc gagatcgtcg gccgccaggg ttgtaaaatt aaagcactga nagccaagac 420
aaacacgtat atcaagactc c                                     441

```

&lt;210&gt; 305

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

```

tcgccatgcc cccttcttag cactgcaccg ccagggtccat gctgctgcca ccccagacct 60
gggctttgcc tgccacctct gtgggcagag cttccgaggc tgggtggccc tggttctgca 120
tctgcgggcc cattcagctg caaagcggcc catcgtttgt cccaaatgcg agagacgctt 180
ctggcgacga aagcagcttc gagctcatct gcggcggtgc caccctcccg ccccgaggc 240
ccggcccttc atatgcggca actgtggccg gagctttgcc cagtgggacc agctagtgtc 300
ccacaagcgg gtgcacgtag ctgaggccct ggaggaggcc gcagccaagg ctctggggcc 360
ccggcccagc ggcgccccg cggtgaccgc ccccgggccc ggtggagatg ccgtcgaccg 420
ccccttcag gtgctgtt gtggcaagcg cttccggcac aagcccaact tgatcgctca 480
ccgcgcgtg c                                     491

```

&lt;210&gt; 306

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 502

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 306

```

tctctttctt ttaagacagg aatgtaagcc acaacattta caaatacaat gttttaactc 60
tctacatgta ggaagccaac ctgctccttt ttgatcttct tctttggcac aacctcagt 120
gatttctctg attcagaacg agttctaatt gatcttctct gttgcttctt ttctactgag 180
cctgtagaac cagatgttgc ttcaggagat gatacactct gcgttggctt ttcatctctc 240
tggttttggtg tagaaaattat aagcctgtct tgccccctga cacttatttc tgttttggtt 300
ccaattccct ttgttgaata aacaaattga tcgataaatt tcccatcccc tgtagcattc 360
tgaagagcaa acacttggtc aattttcaca actggagaca tgttacactt ctgcaaattc 420
aggctccctt tgtgcacccg taatggaagc tggttaaggat ttcccttctg ccgcagtttt 480
ccaggctatt ttaacaggcg gnggctcttc ctctttccgc acttgtgtgc cgcctctggc 540
tatgtct                                     547

```

&lt;210&gt; 307

&lt;211&gt; 571

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 51, 103, 245, 407, 448

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 307

```

cgctgcatgt gataatgtca tcattttatTT ttaaatgggt ctaaattgca natttaagtt 60
gattttcaaT caaccctatt tttaaattac ttttaatagg aanaaatgaa gcaaggacat 120
acataatcta ctatatTTga aggactcaaa caaatacatg tttggctgtg aattctgtac 180
tctcaccaaa acagagataa aaatccacct aaaatacact ttcccttcatt tagtgcttgt 240
ggganaaggT caagtattgc actttaaaat tactttcatc taacatttgc cccaactttc 300
cccttgaatt cactatatgt tttcagcaaa catgatttta taaattttaa gtataaaaagc 360
aactaggttt tctaattcaa ctttggaggT tttactttac tctacanagc tatttttgta 420
aaacggcata tttacttaca aaattganag atagggggcat ccagctgagg tacatttctc 480
cccttggcgt tgagtttctg gacttgggtc gggggcacag gcttgtgtga ctgccccgtg 540
gcccgataca tggcctggac cccaggatgc g 571

```

&lt;210&gt; 308

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 576

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 308

```

ctcccttatgt gtctgcctac ttcatctctc ggcatttctc gcttatccaa gttcaccatt 60
tcaggtcacc actggatatc agttgcctgt atataattat caggcatttc ctgcttatcc 120
aagttcacca tttcaggTca ccactggata tcagttgcct gtatataatt atcaggcatt 180
tcctgcttat ccaagttcac catttcaggT caccactgga tatcagttgc ctgtatataa 240
ttatcaggca tttcctgctt atccaagttc accatttcag gtcaccactg gatatcagtt 300
gcctgtatat aattatcagg catttcctgc ttatccaagt tcaccatttc aggtcaccac 360
tgatatcag ttgcctgtat ataattatca ggcatttctc gcttatccaa gttcaccatt 420
tcaggtcacc actggatatc agttgcctgt atataattat caggcatttc ctgcttatcc 480
aaattcagca gttcaggTca ccactggata tcagttccat gtatacaatt accagatgcc 540
accgcagtgc cctgttgggg gagcaaagga gaaatntgtg gaccgaagca t 591

```

&lt;210&gt; 309

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

```

aggggggtgca cgtactccca actgtggTcg cgctctcacc ccttctgctg ctctcgtggc 60
cccctcgcga tggcggggcat cctgtttgag gatattttcg atgtgaagga tattgaccgc 120
gagggcaaga agtttgaccg aggtaaagtaa gtgtctcgac tgcaattgtga gagtgaatct 180
ttcaagatgg atctaattctt agatgtaaac attcaaatTT accctgtaga cttgggtgac 240
aagtttctggt tggTcatagc tagtaccttg tatgaagatg gtaccctgga tgatgggtgaa 300
tacaacccca ctgatgatag gccttccagg gctgaccagt ttgagtatgt aatgtatgga 360
aaagtgtaca ggattgaggg agatgaaact tctactgaag cagcaacacg cctgctgaga 420
ttgagagctg ctgagtggca gtgctccaga atcacgggat ggggccttct gtttcagctc 480
tgcgtaactg tcttatgggg gcctgctcat gaggctgcag ggggatgcca acaacctgca 540
tggattcagag gtggactcca gagtttatct cctgatgaag aagctagcct t 591

```

<210> 310  
 <211> 488  
 <212> DNA  
 <213> Homo sapiens

<400> 310  
 tgggtctcaag cctgaagagg ctccgcccac aagctggccc atgaagttag caatgcctgt 60  
 ggcttcagtc aattgtcttg agactgtgaa gaggtgaaa gacaccttcc cgggtggaag 120  
 aaggagttca ctgaaaactt atcttaaaact gacccttccc tttgagttag tcttcattcc 180  
 tctcccatgt gggaaccag cctccgatgc cccggggact aggggaaaca gttggagggtc 240  
 cgtgccgtcc ccagcctgcc acgggtgcga ggacagccaa gtcctgagt actcaagatg 300  
 cttcacttac atggaagaaa cttctaaaac tctaccgagt ggtttttgta tatactaaag 360  
 ttctatttag agcttttctg ttttgggcaa gttcgctgct ccttctattt gggcactttg 420  
 gttttgttac tgtcttttgt gacggcattg attgaacatt ttttactagt agtcttatga 480  
 cttttgta 488

<210> 311  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 11, 19  
 <223> n = A,T,C or G

<400> 311  
 cccgtttntg nagcaaaaana gggggaagat ttataggttag aggcgacaaa cctaccgagc 60  
 ctggtgatag ctggttggtcc aagatagaat cttagtgtcaa cttttaaattt gccacagaa 120  
 ccctctaaat ccccttgtaa atttaactgt tagtccaaag aggaacagct ctttggacac 180  
 taggaaaaaa ccttgtagag agagtaaaaa atttaacacc catagtaggc ctaaaagcag 240  
 ccaccaatta agaaagcgtt caagctcaac acccactacc taaaaaatcc caaacatata 300  
 actgaactcc tcacacccaa ttggaccaat ctatcacccct atagaagaac taatgttagt 360  
 ataagtaaca tgaaaacatt ctctccgca taagcctgcg tcagattaaa aactgaact 420  
 gacaattaac agcccaatat ctacaatcaa ccaacaagtc attattaccc tcaactgtcaa 480  
 cccaacacag gcatgctcat aaggaaaggt t 511

<210> 312  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens

<400> 312  
 gaacttgcgt tgaaggaagc agaaactgat gaaataaaaa ttttgctgga agaaagcaga 60  
 gccagcaga aggagacctt gaaatctctt cttgaacaag agacagaaaa tttgagaaca 120  
 gaaattagta aactcaacca aaagattcag gataataatg aaaattatca ggtgggctta 180  
 gcagagctaa gaactttaat gacaattgaa aaagatcagt gtatttccga gtttaattagt 240  
 agacatgaag aagaatctaa tatacttaaa gctgaattaa acaaagtaac atctttgcat 300  
 aaccaagcat ttgaaataga aaaaaaccta aaagaacaaa taattgaact gcagagtaaa 360  
 ttggattcag aattgagtgc tcttgaaaga caaaaagatg aaaaaattac ccaacaagaa 420  
 gagaaatacg aagctattat ccagaacctt gagaaagaca gacaaaaatt ggtcagcagc 480  
 caggagcaag acagagaaca gttaattcag aagcttaatt gtgaaaaaga tgaagctatt 540  
 cagactgccc taaaagaatt taaattggag agagaagttg ttgagaaaga g 591

<210> 313  
 <211> 373  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 16, 34, 44, 46, 68, 70, 76, 84, 92, 96, 99, 104, 170, 212, 235, 240, 249, 287, 296, 298, 304, 308, 334, 337, 339, 344, 348, 370, 373

<223> n = A,T,C or G

<400> 313

```

ttgatttttta ttctgnatitt tattactgaa atangttgtc ctantnatcc caccaccacaa 60
taaaaatntn acccangccc ccnntttctt tncctnatnc cctnttccac cacaccatcc 120
cggaacaagt gtcaccagat tccctgccca ctggccattt tggagtgtgn ccattgggta 180
gcaatgtgga aaccaccaag gcctttgttg anaaaatgga gggggttgag ggagncan 240
gaggggctna tttgagggcc tttgccactt gctcataggc gagctcnatc tcctcntnat 300
ctgnacangt ggaagcaaat tcttcccggt cgtnggnant gctnaagnac cgatgcactc 360
cccgaaggn ctn 373

```

<210> 314

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 569

<223> n = A,T,C or G

<400> 314

```

cccgtgccgc cgccgcctcc tgggaagaga ggaagcggga gaggagccca cgtcgccctgt 60
cacccaatat ctccagccgc gcagtcccga agagtgtgaa atgttcgcct gcgccaagct 120
cgccgtgcacc ccctctctga tccgagctgg atccagagtt gcatacagac caatttctgc 180
atcagtgtta tctcgaccag aggctagtag gactggagag ggctctacgg tatttaattg 240
ggcccagaat ggtgtgtctc agctaatacca aaggagttt cagaccagtg caatcagcag 300
agacattgat actgctgccca aatttatttg tgcaggtgct gcaacagtag gagtggctgg 360
ttctggtgct ggtattggaa cagtcttttg cagccttatc attgggttat ccagaaaccc 420
ttcgctgaag cagcagctgt tctcatatgc tatcctggga tttgccttgt ctgaagctat 480
gggtctcttt tgtttgatgg ttgctttctt gattttgttt gccatgtaac aaattactgc 540
ttgacatgtt ggcattcata ttaattacng atgtaattct gtgtatctta c 591

```

<210> 315

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 553

<223> n = A,T,C or G

<400> 315

```

aagcccttca ccaacaaaga tgcctatact tgtgcaaatt gcagtgcctt tgtccacaaa 60
ggctgccgag aaagtctagc ctctgtgca aaggtaaaaa tgaagcagcc caaagggagc 120
cttcaggcac atgacacatc atcactgcc acggtcatta tgagaaacaa gccctcacag 180
ccaaggagc gtccctcggtc cgcagtcctc ctggtggatg aaaccgctac caccacaata 240
tttgccaata gacgatccca gcagagtgtc tcgctctcca aaagtgtctc catacagaac 300
attactggag ttggcaatga tgagaacatg tcaaacacct ggaaattcct gtctcattca 360
acagactcac taaataaaat cagcaaggct aatgagtcaa cagaatcact tactgatgag 420

```

```

ggtagacagaca tgaatgaagg acaactactg ggagactttg agattgagtc caaacagctg 480
gaagcagagat cttggagtcg gataatagac agcaagtttc taaaacagcc aaaagaaaga 540
tgtgggtcaa acngcgagaa gtaatatatg agttggatgc agacagagtt t 591

```

<210> 316

<211> 591

<212> DNA

<213> Homo sapiens

<400> 316

```

gtttttataa gaataaaaatt ccattcaagc cagatgggtg ttacattgaa gaagttctaa 60
gtaaatggaa aggagattat gaaaaactgg agcacaacca cacttacatt caatggcttt 120
tccccctgag agaacaaggc ttgaacttct atgccaaaaga actaactaca tatgaaattg 180
aggaattcaa aaaaacaaaa gaagcaatta gaagattcct cctggcttat aaaatgatgc 240
tagaattttt tggaataaaaa ctgactgata aaactggaaa tgttgctcgg gctgttaact 300
ggcaggaaaag atttcagcat ctgaatgagt cccagcacia ctatttaaga atcactcgtg 360
ttcttataaag ccttggtgag cttggatatg aaagttttta atctctctct gtataattta 420
ttcttcatga agctcttggt gagaataacta ttcccaatat taagcagagt gctctagagt 480
attttgttta tacaattaga gacagaagag aaaggagaaa gctcctgcgg ttgcccaga 540
aacactacac gccttcagag aactttatct ggggacccgc ctgaaaaga a 591

```

<210> 317

<211> 323

<212> DNA

<213> Homo sapiens

<400> 317

```

ccaagctacg gaagcaagtg gaagagattt ttaatttgaa atttgctcaa gctcttggac 60
tcaccgaggc agtaaaagta ccataatcctg tgtttgaatc aaaccggag ttcttctatg 120
tggaaggctt gccagagggg attcccttcc gaagccctac ctggtttgga attccacgac 180
ttgaaaggat cgtccacggg agtaataaaa tcaagttcgt tgttaaaaaa cctgaactag 240
ttatttccta cttgcctcct gggatggcta gtaaaaataa cactaaagct ttgcagttcc 300
ccaaaagacc acgaagtcct ggg

```

<210> 318

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 538, 590

<223> n = A,T,C or G

<400> 318

```

gatggcgtac ttggcttggg gactggcgcg gcgttcgtgt ccgagttctc tgcaggtcac 60
tagtttcccg gtagttcagc tgcacatgaa tagaacagca atgagagcca gtcagaagga 120
ctttgaaaat tcaatgaatc aagtgaactt cttgaaaaag gatccaggaa acgaagtga 180
gctaaaactc tacgcgctat ataagcaggc cactgaagga ccttgtaaca tgcccaaac 240
aggtgtatth gacttgatca acaaggccaa atgggacgca tggaatgcc ttggcagcct 300
gcccaaggaa gctgccaggc agaactatgt ggatttggtg tccagtttga gtccttcatt 360
ggaatcctct agtcagggtg agcctggaac agacaggaaa tcaactgggt ttgaaactct 420
ggtggtgacc tccgaagatg gcatcacaaa gatcatgttc aaccggccca aaaagaaaa 480
tgccataaac actgagatgt atcatgaaat tatgcgtgca cttaaagctg ccagcaanga 540
tgactcaatc atcacttggt ttaacaggaa atggtgacta ttacagtagn g 591

```

<210> 319

<211> 591



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

```

gaattcggca cgaggttgct gctaagcgaa cgccctttgg agcttaocga ggccttctga 60
aagacttcac tgctactgac ttgtctgaat ttgctgocaa ggctgccttg tctgctggca 120
aagtctcacc tgaaacagtt gacagtgtga ttatgggcaa tgcctgcag agttcttcag 180
atgctatata tttggcaagg catgttggtt tgcgtgtggg aatcccaaag gagaccccag 240
ctctcacgat taataggctc tgtggttctg gttttcagtc cattgtgaat ggatgtcagg 300
aaatttgtgt taaagaagct gaagttgttt tatgtggagg aaccgaaagc atgagccaag 360
ctccctactg tgcagaaat gtgcgttttg gaaccaagct tggatcagat atcaagctgg 420
aagattcttt atgggtatca ttaacagatc agcatgtcca gctcccatg gcaatgactg 480
cagagaatct tgctgtaaaa cacaaaataa gcagagaaga atgtgacaaa tatgccctgc 540
agtcacagca gagatggaaa gctgctaatt atgctggcta ctttaattgat g 591

```

&lt;210&gt; 320

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 505, 507, 536, 549, 588

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 320

```

ggctccggcg tctgcagggg tcgccgagct aaccctggc taggcgagtg gggcggggcg 60
gccggcacca tctcgaggca ggcgaaccgt ggcaccgaga gcaagaaaat gagctctgag 120
ctcttcaccc tgacctatgg tgccctggtc acccagctat gtaaggacta tgaaaatgat 180
gaagatgtga ataaacagct ggacaaaatg ggctttaaca ttggagtccg gctgattgaa 240
gatttcttgg ctccgtcaaa tgttggggagg tgccatgact ttccggaaac tgcggatgtc 300
attgccaaag tggcggttaa gatgtacttg ggcattcact caagcattac taattggagc 360
ccagctgggt atgaattctc cctcattttg gaaaataacc ccttgggtgga ctttgtggaa 420
cttctgata accactcatc ccttatttat tccaatctct tgtgtggggg gttgcgggga 480
gctttggaga tgggtccagat ggctngngga ggccaagtt tgtccaggac accctnaaag 540
gagacggng tgacagaaat ccggatgaga ttcatcaggc ggattganga c 591

```

&lt;210&gt; 321

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 248, 252

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 321

```

ctgcttggct ccacacgtgg gccgcgtag gtattccgac cggtaattcc tcctatttgg 60
gtgcagcagc cacattgaag gatagagtgg cagcagagga caaggatcgt gagttgatgg 120
agtttgcctg tgaaaatgaa gggaagtctg ggggaggtct ccacagcgta gctgaggggg 180
tgccgctaag tccagagcct ggcagggagg gagtaaggga cttagcaggg gcggaggagt 240
tctgcggngg anaggagggg

```

&lt;210&gt; 322

&lt;211&gt; 559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 61, 85, 87, 136, 142, 148, 161, 164, 180, 183, 203, 204, 234, 275, 286, 307, 311, 313, 337, 491, 523, 526

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 322

```

ttccacatga catggagtgt gaagctggat gagcacatca ttccactggg aagcatggca 60
nttaacagca tctcaaaact gactnancct acccagtctt ccatgtattc acttcctaata 120
gcacccactc tggcanacct gnaggacnat acacatgaag ncantgatga tcagccagan 180
aancctcact ttgactctcg canngtgata tttgagctgg attcatgcaa tggnagtggg 240
aaagtttgcc ttgtctacaa aagtgggaaa ccagnattag cagaanaacac tgagatctgg 300
ttcctgnaca nancgttata ctggcatttt ctcacanaca cctttactgc ctattaccgc 360
ctgctcatca cccacctggg cctgccccag tggcaatatg ccttcccagc tatggcatta 420
gcccacaggc caagcaatgg ttcagcatgt ataaacctat cacctacaac acaaacctgc 480
tcacagaaga naccgactcc tttgtgaata agctagatcc canctnagtg ttttaagagca 540
agaacaagat cgttatccc                                     559

```

&lt;210&gt; 323

&lt;211&gt; 492

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 412, 446

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 323

```

cctgtctccc agccgtacca gcgagggctc ggccggcagc gccgggctgg ggggcggcgg 60
cgccggcgcc ggagccgggg tgggtgcagg cggcggcggg ggcagcggcg cgagcagcgg 120
cggcggggcc ggggggctgc aaccagcag ccgcgctggc ggcggccggc cctccagccc 180
cagcccgtcg gtggtgagcg agaaggagaa ggaagagttg gagcggctgc agaaagagga 240
ggaggagagg aagaagaggc tgcagctgta tgtgttcgtg atgcgctgca tcgcctaccc 300
ctttaatgcc aagcagccca ccgacatggc tcgccggcag cagaagatca gcaaacagca 360
gctgcagaca gtcaaggacc ggtttcaggc tttcctcaat ggggaaaccc anatcatggc 420
tgacgaagcc ttcatgaacc gctgtngcag agttactatg aggtgttcct gaagaccacc 480
cgtgtggccg ca                                     492

```

&lt;210&gt; 324

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 141, 184, 357

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 324

```

aatttcagca acatacttct caattttcttc aggatttaaa atcttgaggg attgatctcg 60
cctcatgaca gcaagttcaa tgtttttgcc acctgactga accacttcca ggagtgcctt 120
gatcaccagc ttaatggtca natcatctgt ttcaatggct tcgtcagtat agttcttctc 180
cagnaactca cgcactgact tggcaccctg gcctatggca ttggccttcc aggcattggt 240
tgtgcccagag gggtcagtct gatagagcct aggagtggca tcaaagtcga aaccacagat 300
gagggcagag atgccaaacg gcctgcgccc attgctctgc gtataacgct gcttcanact 360
ggcgatgtag cgggtgatgt actccacagt gaccgggtcc tccacagtca gccgggtggc 420

```

ctggcactcc acccgggccc tgttgatgac tatccttgca tcggcgggtga ggcc 474

<210> 325

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 517

<223> n = A,T,C or G

<400> 325

```
gaggagacag gacagagcgt ctggagagggc aggaggacac cgagttcccc gtgttggcct 60
ccaggtcctg tgcttgcgga gccgtccggc ggctgggacg gagccccgac aatgggcaac 120
gcgcaggagc ggccgtcaga gactatcgac cgcgagcgga aacgcctggc cgagacgctg 180
caggcggact cgggactgct gttggacgcg ctgctggcgc ggggcgtgct caccgggcca 240
gagtacgagg cattggatgc actgcctgat gccgagcgca gggcgcgccg cctactgctg 300
ctgggtgcagg gcaagggcga ggccgcctgc caggagctgc tacgctgtgc ccagcgtacc 360
gcgggcgcgc cggacccgcg ttgggactgg cagcacgtgg gtccgggcta ccgggaccgc 420
agctatgacc ctccatgccc aggccactgg acgccggagg caccgggctc ggggaccaca 480
tgccccgggt tgcccagact tcagaccctg acgaggncgg gggccctgag gg 532
```

<210> 326

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 49, 132

<223> n = A,T,C or G

<400> 326

```
caaaattaac atttttatta aatcaagtta aaaaaaatgt tcagtgtana aaagtcaaca 60
agggttttaa caaaaccaa atataccttt ttatacaata tatgtatata ttagcagcaa 120
actacttctg anattctctt tcttttatgt tcttctagtt attttaaaga aagcataaac 180
aatgtatatt agtatggaat gtcagcaaat ccactcttag tcctttattc tgtgatttgg 240
gccttctaca aaatactttg tgattctcac taatgaatat taagaacata cccaatttta 300
actaaaaagt agtgaaacag tg 322
```

<210> 327

<211> 387

<212> DNA

<213> Homo sapiens

<400> 327

```
aaaaccgtgt actattagcc atgggtcaacc ccaccgtgtt cttcgacatt gccgtcgacg 60
gcgagccctt gggccgcgtc tcctttgagc tgtttgacga caagggtcca aagacagcag 120
aaaattttcg tgctctgagc actggagaga aaggatttgg ttataagggc tcctgctttc 180
acagaattat tccagggttt atgtgtcagg gtgggtgactt cacacgccat aatggcactg 240
gtggcaagtc catctatggg gagaaatttg aagatgagaa cttcatccta aagcatacgg 300
gtcctggcat cttgtccatg gcaaatgctg gacccaacac aaatgggttc cagtttttca 360
tctgcactgc caagactgag tggttgg 387
```

<210> 328

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 354

<223> n = A,T,C or G

<400> 328

```

agcagcccgg cgcgggccgcc gcgcccggcgg gcggcaaggc tccggggccag catggggggt 60
tcgtggtgac tgtcaagcaa gagcgcgggc aggggtccacg cgcgggcgag aaggggtccc 120
acgaggagga gccggtgaag aaacgcggct ggcccaaggc caagaagcgg aagaagattc 180
tgccgaatgg gcccaaggca ccggtcacgg gctacgtgcg cttcctgaac gagcggcgcg 240
agcagatccg cagcgccac ccggtctgc ctttcccga gatcaccaag atgctgggcg 300
ccgagtggag caagctgcag ccaacggaaa agcagcggta cctggatgag gccnagagag 360
agaagcagca gtacatgaag gagctgcggg cgtaccagca gtctgaagcc tataagatgt 420
gcacggagaa gatccaggag aagaagatca agaaagaaga ctcgagctct gggctcatga 480
acactcttct gaatggacac aa                                     502

```

<210> 329

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 97, 219, 256, 331, 457

<223> n = A,T,C or G

<400> 329

```

caagttgcac attttaattt acaattttta ccaataaaaa ggattagttt acaaaaaggg 60
aagtccttta taaaaataa ggacaatttg taaaganaat ccactgtcat gttttgcctt 120
gtcaagtcaa aactcaaata gcttgttttg gtaaaattat tccagaaaaca taatccagac 180
aaaatcaata acgtcatcag cttcctaacc atgtttaana ggaataactt catgaacatt 240
ttgccctgaa ctgaanagtt cttaaatactt gtaaaccttt agggaaaaaat gactgctcgc 300
aggcagcttg actggtaaga gggtagacca nagactccgg gtcactcact gtcagaatat 360
tcttatacat acaatgagtc tccacgcctg tacaatgagt gtcgtgcaac ataattggag 420
taatggcctc taaaatttta caagtaaaact ttattgnggc ccc                                     463

```

<210> 330

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 350, 388, 397, 426, 478, 490, 491

<223> n = A,T,C or G

<400> 330

```

taattataga tctacaaaat atgaaatgta ttccaagaat gcagaaaaac catctagaag 60
caaaaggact ataaaaacaaa aacagagaag aaaattcatg gctaaaccag ctgaagaaca 120
gcttgatgtg ggacagtcta aagatgaaaa catacataca tcacatatta cccaagacga 180
atttcaaaga aattcagaca gaaatatgga agagcatgaa gagatgggaa atgattgtgt 240
ttccaaaaaa acagatgcc a cctgtgggaa gcaagaaaag tagcactaga aaagataagg 300
aagaatctaa aaagaagcgc ttttccagt agtccaagaa caaacttgn cctgaagaag 360
tgacttcaac tgtcacgaaa agtcgaanaa tttccangcg tccatctgat tgggtgggtg 420
taaaancaga ggagagtcct gtttatagca attcttcagt aagaaatgaa ttaccaantg 480
catcacaatn ntgcccgaa                                     500

```

<210> 331  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 222, 290, 314, 319, 338, 449, 460  
 <223> n = A,T,C or G

<400> 331  
 tctctctctc tctcaaaatt acagtgttca ttgtcattga cctcagcagc aaattttgact 60  
 tgaattcact taggatcgca ggaatcaggg gaaagtgatt ttaaagggtg tttctccagc 120  
 acatttttaag aaaagggacc aaaagtattt ttagcttcct caatagattg catgttgctt 180  
 attaggataa taaattaata taaaatgcaa tataatgtctt gncittatta tggcatctat 240  
 ttaggagttg ttcaaatac tgcagttagg ctctgcaaat aaaataatgn aacctattat 300  
 catggatcta atgnactgna actttatcag tgaaaggnaa aatctcaaat aacaagtaca 360  
 aacattggac aattacctat aaagatttgt aaaaggaaaa tttttccata gatttcattc 420  
 ttggcatttt gtaaagacga ccctgcagnc ccctgtttgn aactttttta ataaaaataga 480  
 catctgttta ctg 494

<210> 332  
 <211> 538  
 <212> DNA  
 <213> Homo sapiens

<400> 332  
 aaagaacaaa tggaacgcga tggttgttct gaacaagagt ctcaaccgtg tgcattttatt 60  
 gggatagaaa atagtaccca agaaatgcag cagctaaact tggaaggaaa gaactattgc 120  
 acagccaaaa cattgtatat atctgactca gacaagcgaa agcacttcat gttgtctgta 180  
 aagatgttct atggcaacag tgatgacatt ggtgtgttcc tcagcaagcg gataaaagtc 240  
 atctccaaac cttccaaaaa gaagcagtc ttagaaaaatg ctgacttatg cattgcctca 300  
 ggaacaaagg tggctctgtt taatcgacta cgatcccaga cagttagtac cagatacttg 360  
 catgtagaag gaggtaattt tcatgccagt tcacagcagt ggggagcctt ttttattcat 420  
 ctcttgatg atgatgaatc agaaggagaa gaattcacag tccgagatgg ctacatccat 480  
 tatggacaaa cagtcaaact tgtgtgctca gttactggca tggcactccc aagattga 538

<210> 333  
 <211> 499  
 <212> DNA  
 <213> Homo sapiens

<400> 333  
 ctcagcctgc gggactgctc ggctcggctt ctaggcggtt ttgatgaaca cctggcttta 60  
 ttcttgcaat gaagaaaggt tctcaacaaa aaatattctc caaagcaaag ataccatcat 120  
 catctcactc tcctatccca tcatctatgt ccaatatgag atctaggtca ctttcacctt 180  
 tgattggatc agagactcta ctttttcatt ctggaggaca gtggtgtgag caagttgaga 240  
 ttgcagatga aaacaatatg cttttggact atcaagacca taaaggagct gattcacatg 300  
 caggagttag atatattaca gaggccctca ttaaaaaact tactaaacag gataatttgg 360  
 ctttgataaa atctctgaac ctttcacttt ctaaagacgg tggcaagaaa ttttaagtata 420  
 ttgagaattt ggaaaaatgt gttaaacttg aagtactgaa tctcagctat aatctaatag 480  
 ggaagattga aaagtcgga 499

<210> 334  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 503, 548

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 334

```

ttcccggtag ttccagctgca catgaataga acagcaatga gagccagtca gaaggacttt 60
gaaaattcaa tgaatcaagt gaaactcttg aaaaaggatc caggaaacga agtgaagcta 120
aaactctacg cgctatataa gcaggccact gaaggacctt gtaacatgcc caaaccaggt 180
gtatttgact tgatcaacaa ggccaaatgg gacgcatgga atgcccttgg cagcctgccc 240
aaggaagctg ccaggcagaa ctatgtggat ttggtgtcca gtttgagtcc ttcattggaa 300
tcctctagtc aggtggagcc tggaacagac aggaaatcaa ctgggtttga aactctggtg 360
gtgacctccg aagatggcat cacaaagatc atgttcaacc cggcccaaaa agaaaaatgc 420
cataaacact gagatgtatc atgaaattat gcgtgcactt aaagctgcca gcaaggatga 480
ctcaatcatc actgttttaa cangaaatgg tgactattac agtagtgga atgatctgac 540
taacttcnct gatattcccc c 561

```

&lt;210&gt; 335

&lt;211&gt; 551

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 335

```

aagctgggtca tggctgggga gaccaccaac tcccgcggcc agcggctgcc ccagaaggga 60
gacgtggaga tgctgtgcgg cgggccgccc tgccagggtc tcagcggcat gaaccgcttc 120
aattcgcgca cctactccaa gttcaaaaac tctctggtgg ttcccttcct cagctactgc 180
gactactacc ggccccggtt cttcctcctg gagaatgtca ggaactttgt ctccttcaag 240
cgctccatgg tcctgaagct caccctccgc tgcctggtcc gcatgggcta tcagtgcacc 300
ttcggcgtgc tgcaggccgg tcagtacggc gtggccaga ctaggaggcg ggccatcatc 360
ctggccgchg cccctggaga gaagctccct ctgttcccgg agccactgca cgtgtttgct 420
ccccgggctt gccagctgag cgtggtgggt ggatgacaag aagtttgtga gcaacataac 480
caggttgagc tcgggtcctt tccggaccat acggtgcgag aaacgatgtc cgacctgccg 540
gaagtgcgga a 551

```

&lt;210&gt; 336

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 517

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 336

```

aggtctatgt ctactgaagg caataaacga ggaatgatcc agcttattgt tgcaaggaga 60
ataagcaagt gcaatgagct gaagtcacct gggagccccc ctggacctga gctgcccatt 120
gaaacagcgt tggatgatag agaacgaaga atttccatt ccctctacag tgggattgag 180
gggcttgatg aatcgcccag cagaaatgct gccctcagta ggataatggg taaataccag 240
ctgtccccta cagtgaatat gcccgaagat gacactgtca ttatagaaga tgacagggtt 300
ccagtgcctt ctccacatct ctctgaccag tcctcttcca gctcccatga tgatgtgggg 360
tttgtgacgg cagatgctgg tacttgggcc aaggctgcaa tcagtgatc agccgactgc 420
tctttgagtc cagatgttga tccagttcct gcttttcaac gaaaaaggat ttggacgtca 480
gaagtatgtc agaaaaacgc accaaagcaa ttttcanatg ccagtcaatt ggatttcggt 540

```

&lt;210&gt; 337

<211> 422  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 410  
<223> n = A,T,C or G

<400> 337  
gcagcaggaa cagttacagc agcagcagca acagcagctg ttgcaacagc agcaggaaca 60  
attgcagcag caacaactgc agcctcctcc cctggagccc gaggaggagg aagagggtgga 120  
gctggagctc atgccggttg acctgggggtc agagcaggag ctggagcagc agcggcagga 180  
gttggagcgg cagcaggagc tggaaaggca gcaggagcag cggcagctgc agctcaaact 240  
gcaggaggag ctgcagcagc tggagcaaca gctggagcag cagcagcagc agctggagca 300  
gcaggagggtg cagctggagc tgaccccggg ggagctaggc gcccagcagc aggagggtgca 360  
gctggagctg acccccgtgc agccggagct gcagctggaa ctggtgccan cccaggggggc 420  
gg 422

<210> 338  
<211> 601  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 486, 566, 568  
<223> n = A,T,C or G

<400> 338  
catcttacga acgctctatg atgtcttatg agcgggtctat gatgtcccct atggctgaac 60  
gctctatgat gtcagcctac gagcgctcta tgatgtcagc ctacgagcgc tctatgatgt 120  
cccctatggc tgagcgctct atgatgtcag cttatgaacg ctccatgatg tcagcttatg 180  
aacgctccat gatgtcccca atggctgata gatctatgat gtccatgggt gctgaccggg 240  
ctatgatgtc gtcatactct gctgctgacc ggtctatgat gtcacgtac tctgcagctg 300  
accgatctat gatgtcatct tatactgctg atcggtcaat gatgtctatg gctgctgatt 360  
cttacaccga ttcttacact gacacatata cagaggcata tatggtgccca cctttgcctc 420  
ctgaagagcc cccaacaatg ccaccgttgc cacctgagga gccaccaatg acaccacat 480  
tgccctnctga ggaaccaccc agagggtcca gcattgcccc cttgagcagt cagcattaac 540  
cagcttgaaa atacttggcc ctacanangg tgccatcatt accatctgaa gagctgtatc 600  
g 601

<210> 339  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 429  
<223> n = A,T,C or G

<400> 339  
agagggagga ggcccaactg gtgatgctgc tgctgctgct gctgccgccg ccgccgcctc 60  
tattgctgat actctagtgg ggctggaagg gtgggttccta ttgcgacat cgccaaccag 120  
agacagaggg aaaaaaaaaa ccggcagcca ctgctgatgt tgggttcgga ggctgcatcc 180  
gactcgggtca caaggaaaaat ggattcagtt tgcattctct cctcctttaa acagcttctc 240  
cgggtctcag catggtatca aagcttgaaa gagagaagac tcaagaagcg aagaggattc 300

```

gtgagctgga gcagcgcaag cacacggtgc tggtagacaga actcaaagcc aagctccatg 360
aggagaagat gaaggagctg caggctgtga gggagaacct tatcaagcag cacgacagga 420
aatgtcaang acggtgaagg                                     440

```

<210> 340

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 441, 442

<223> n = A,T,C or G

<400> 340

```

gatttccagg ggcggatatt gagtgtcgac ccagaggaag aaagggagga gggcccgccct 60
aggattcctc aggccgacca gtggaagtct tcaaacaaga gcctgggtgga ggctctgggg 120
ctggaagccg aggggtgcagt tcctgagaca cagactttga ccggatggag taaggggttc 180
attggcatgc acagggaaat gcaagtcaac cccatttcaa agcggatggg gcccatgact 240
gtggtcagga tggacgcttc agtccagcca ggcccttttc ggaccctgct ccagtttctt 300
tatacgggac aactggatga aaaggaaaag gatttgggtg gcctgggtca gatcgagag 360
gtcctcgaga tggtcgattt gaggatgatg gtggaaaaca tcatgaacaa ggaagccttc 420
atgaaccagg agattacgaa nncctttcac                                     450

```

<210> 341

<211> 451

<212> DNA

<213> Homo sapiens

<400> 341

```

aacagctatt aaaacagaaa atggatgaac ttcataagaa gttgcatcag gtggtggaga 60
catcccatga ggatctgccc gcttcccagg aaagggtccga ggttaatcca gcacgtatgg 120
ggccaagtgt aggtctccag caggaactga gagcgccatg tcttccagta acctatcagc 180
agacaccagt gaacatggaa aagaacccaa gagaggcacc tcctgttggt cctccttttg 240
caaatgctat ttctgcagct ttggtgtccc cagccaccag ccagagcatt gtcctccttg 300
ttcctttgaa agcccagaca gtaacagact ccatgtttgc agtggccagc aaagatgctg 360
gatgtgtgaa taagagtact catgaattca agccacagag tggagcagag atcaaagaag 420
ggtgtgaaac acataagggtt gccaacacaa g                                     451

```

<210> 342

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 462, 475

<223> n = A,T,C or G

<400> 342

```

ctcaagcagg ctattgaaga ggaaggaggc gatccagata atattgaatt aactgtttta 60
actgatactc caaacaagaa accaactaaa ggcaaaggta aaaaacatga agcagatgag 120
ttgagtggag atgcttctgt gggaagatga tgcttttatc aaggactgtg aattggagaa 180
tcaagaggca catgagcaag atggaaatga tgaactaaag gactctgaag aatttgggtg 240
aaatgaagaa gaaaatgtgc attccaagga gttactctct gcagaagaaa acaagagagc 300
tcatgaatta atagaggcag aaggaataga agatatagaa aaagaggaca tcgaaagtca 360
ggaaattgaa gctcaagaag gtgaagatga tacctttcta acagcccaag atgggtgagga 420
agaagaaaaat gagaaagata tagcagggtt ctggtgatgg cncacaagaa gtatntaaac 480

```



ctcttccttc aaaaagg

498

&lt;210&gt; 343

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 343

```

ccgacccta ctcggcggcg caactccaca accagtacgg ccccatgaat atgaacatgg 60
gtatgaacat ggagcagcc gggggccacc accaccacca ccaccaccac cccccgggtg 120
cctttttccg ctatatgcgg cagcagtgc tcaagcagga gctaactctgc aagtggatcg 180
accccgagca actgagcaat cccaagaaga gctgcaacaa aactttcagc accatgcacg 240
agctggtgac acacgtctcg gtggagcacg tcggcggccc ggagcagagc aaccacgtct 300
gcttctggga ggagtgtccg cgcgagggca agcccttcaa ggccaaatac aaactgggtca 360
accacatccg cgtgcacaca ggcgagaaac ccttccttgc ccttcggggt gtggcaaatg 420
cttcgcgcgc tccgagaacc tcaagatcca caaaaggacc acacagggga gaagccgtcc 480
agtggagttg a

```

491

&lt;210&gt; 344

&lt;211&gt; 412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 310, 377

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 344

```

gtgcgctgtc ttcccgttg cgtcaggagc ctgcccgaact cagtggccgc catggcatca 60
gatgaaggca aactttttgt tggagggtg agttttgaca ccaatgagca gtcgctggag 120
caggctttct caaagtacgg acagatctct gaagtgggtg ttgtgaaaga cagggagacc 180
cagagatctc ggggattttg gtttgtcacc ttgagaaca ttgacgacgc taaggatgcc 240
atgatggcca tgaatgggaa gtctgtagat ggacggcaga tccgagtaga ccaggcaggc 300
aagtcgtcan acaaccgatc ccgtgggtac cgtggtggct ctgccggggg ccggggcttc 360
ttccgtgggg gcccgangac gggggccgtg ggttctctaa aagaagaggg ga

```

412

&lt;210&gt; 345

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 345

```

aactagtctc gggccatcct ttctgcgcac ccggtgtcgc tgggctgcac cccgggcccgg 60
gacgtccgcc gggcacggga gggggccaag atgccgatca ataaatcaga gaagccagaa 120
agctgcgata atgtgaagg tgtgttagg tgccggcccc tcaatgagag agagaaatca 180
atgtgctaca aacaggctgt cagtgtggat gagatgaggg gaactatcac tgtacataag 240
actgattctt ccaatgaacc tccaaagaca ttacttttg atactgtttt tggaccagag 300
agtaacaac ttgatgttta taacttaact gcaagacctt ttattgattc tgtacttgaa 360
ggctacaatg ggactatttt tgcataatgga caaaccggaa caggcaaaac ttttaccatg 420
gaaaggtgtc gagctattcc tgaacttaga ggaataattc cccaatttct ttgctcacia 480
tatttgggcc atatttgc

```

498

&lt;210&gt; 346

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 348, 349  
 <223> n = A,T,C or G

<400> 346  
 agatggcggg cgccgtgaga actttgcagg aacagctgga aaaggccaaa gagagtctta 60  
 agaacgtgga tgagaacatt cgcaagctca ccgggcggga tccgaatgac gtgaggccca 120  
 tccaagccag attgctggcc ctttctgggc ctgggtggagg tagaggacgt ggtagtttat 180  
 tactgaggcg tggattctca gatagtggag gaggaccccc agccaaacag agagaccttg 240  
 aaggggcagt cagtaggctg ggcggggagc gtcggaccag aagagaatca cgccaggaaa 300  
 gcgaccggga ggatgatgat gttaaaaagc cagcattgca gtcttcannt gtagctacct 360  
 cccaaagagc gccccacgta gagaccttat ccagggatca aaatttttga tgaaaaaggg 420  
 gaaagcc 427

<210> 347  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 347  
 cacagaaagt tctccgctcc cagacatggg tccctcggct tcctgcctcg gaagcgcagc 60  
 agcaggcatc gtgggaaggt gaagagcttc cctaaggatg acccgtccaa gccgggtccac 120  
 ctcacagcct tcctgggata caaggctggc atgactcaca tcgtgcggga agtcgcacagg 180  
 ccgggatcca aggtgaacaa gaaggagggtg gtggaggctg tgaccattgt agagacacca 240  
 cccatggtgg ttgtgggcat tgtgggctac gtggaaaccc 280

<210> 348  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 348  
 caactatgat gtgcctgaaa aatgggcacg attctatact gcagaagtag ttcttgcatt 60  
 ggatgcaatc cattccatgg gttttattca cagagatgtg aagcctgata acatgctgct 120  
 ggataaatct ggacatttga agtttagcaga ttttgggtact tgtatgaaga tgaataagga 180  
 aggcatggta cgatgtgata cagcgggttg aacacctgat tatatttccc ctgaagtatt 240  
 aaaatcccaa ggtggtgatg gttattatgg aagagaatgt gactggtggg cggttggggg 300  
 atttttatac gaaatgcttg taggtgatac acctttttat gcagattctt tggttggaac 360  
 ttacagtaaa attatgaacc attaaaaatt cacttacctt tcctgatgat a 411

<210> 349  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 349  
 gatgggcacg tctcgggaca actggcacaa gcgccgcaaa accggggggca agagaaagcc 60  
 ctaccacaag aagcgggaagt atgagttggg gcgccagct gccaacacca agattggccc 120  
 ccgccgcacg cacacagtcc gtgtgcgggg aggttaacaag aaataaccgtg ccctgagggt 180  
 ggacgtgggg aatttctcct ggggctcaga gtgttggtact cgtaaaacaa ggatcatcga 240  
 tggtgtctac aatgcatcta ataacgagct ggttcgtacc aagaccctgg tgaagaattg 300  
 catcgtgctc atcgacagca caccgtaccg acagtgggtac gaggccact atgcgctgcc 360  
 cctgggcccgc aagaaggag ccaaactgac ttctgaggaa gaagaaaa 408

<210> 350  
 <211> 409  
 <212> DNA

<213> Homo sapiens

<400> 350

```
ggttccccc  gctctgggta  cccggctctg  catcgcgctg  ccatgatggg  ccatcgcca  60
gtgctcgtgc  tcagccagaa  cacaaagcgt  gaatccggaa  gaaaagttca  atctggaaac  120
atcaatgctg  ccaagactat  tgcagatatc  atccgaacat  gtttgggacc  caagtccatg  180
atgaagatgc  ttttggaccc  aatgggaggc  attgtgatga  ccaatgatgg  caatgccatt  240
cttcgagaga  ttcaagtcca  gcatccagcg  gccaaagtcca  tgatcgaaat  tagccggacc  300
caggatgaag  aggttggaga  tgggaccaca  tcagtaatta  ttcttgacgg  ggaaatgctg  360
tctgtagctg  agcacttcct  ggagcagcag  atgcacccaa  cagggtggg  409
```

<210> 351

<211> 226

<212> DNA

<213> Homo sapiens

<400> 351

```
aatcccaaac  atataactga  actcctcaca  cccaattgga  ccaatctatc  accctataga  60
agaactaatg  ttagtataag  taacatgaaa  acattctcct  ccgcataagc  ctgcgtcaga  120
ttaaaacact  gaactgacaa  ttaacagccc  aatatctaca  atcaaccaac  aagtcattat  180
tacctcact  gtcaacccaa  cacaggcatg  ctcataagga  aagggt  226
```

<210> 352

<211> 410

<212> DNA

<213> Homo sapiens

<400> 352

```
gcggaggggc  tggctgggca  ggagggggtg  gcggggcagc  agggccgcgg  ccatggggag  60
cttgaaggag  gagctgctca  aagccatctg  gcacgccttc  accgcactcg  accaggacca  120
cagcggcaag  gtctccaagt  cccagctcaa  ggtcctttcc  cataacctgt  gcacgggtgct  180
gaagggtcct  catgacccag  ttgcccttga  agagcacttc  agggatgatg  atgagggtcc  240
agtgtccaac  cagggtctaca  tgccttatit  aaacagggtt  attttggaaa  aggtccaaga  300
caactttgac  aagattgaat  tcaataggat  gtgttgacc  ctctgtgtca  aaaaaaacct  360
cacaaagaat  cccctgctca  ttacagaaga  agatgcattt  aaaatatggg  410
```

<210> 353

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 133, 162, 200, 210, 252, 324, 332, 349, 365, 371

<223> n = A,T,C or G

<400> 353

```
gagtttatit  agaaagtatc  atagtgtaaa  caaacaaatt  gtaccacttt  gattttcttg  60
gaatacaaga  ctctgatgac  aaagctgaag  ttgtgtgtac  aagactcttg  acagttgtgc  120
ttctctagga  ggntgggttt  ttttaaaaaa  agaattatct  gngaaccata  cgtgattaat  180
aaagatttcc  ttttaaggcan  aggtggtcn  agatgctgct  gttatcttct  gcctcagaca  240
gacagtataa  gnggtcttgt  ttctaagatt  cctaccacca  gttacttttg  gccaaagtatc  300
cacatccct  tgcgtatggg  agngnggtga  anagtgttgg  atgcaaagng  gttattatgg  360
gaagnagctc  natggtaaaa  380
```

<210> 354

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 120, 124, 138, 194, 205, 220, 224, 275, 334

<223> n = A,T,C or G

<400> 354

```
caacacatct ttattaaaca cctgaagtta ctgggaggag gccatgatgc tggacacact 60
gtcaaagtca atcttctcca caatgttctt gggtttaatg ctctcttctt ggctacagan 120
gaanatctgc cccgactngt cggcactcca gccgtatttg ctcatccaca ccttttagctg 180
gctgtccgac aganccccga gcatntcggc cagcagccan cggncaatgt gctggtaagt 240
gatacccaca acatggcaga taaactttcg gacanagtct tcaaagccag ttataccttc 300
caagaggtcc atgttttcat ccagggtttg ccanaagcct ggaaatggca ggtctccaac 360
aggtccccca ggtacaaaa 379
```

<210> 355

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 407, 459, 483

<223> n = A,T,C or G

<400> 355

```
gtccagagct gctgggtgctc ccgttcccca gaccctaccc ctatccccag tggagccgga 60
gtgcggggcgc gcccaccac cgccctcacc atgggtgctgt tggcagcagc ggtctgcaca 120
aaagcaggaa aggctattgt ttctcgacag tttgtggaaa tgaccgaac tcggattgag 180
ggcttattag cagcttttcc aaagctcatg aacactggaa aacaacatac gtttgttgaa 240
acagagagtg taagatatgt ctaccagcct atggagaaac tgtatatggt actgatcact 300
acaaaaaaca gcaacatttt agaagatttg gagaccctaa ggctcttctc aagagtgatc 360
cctgaatatt gcgagcctta gaagagaatg aaatatctga gcactgnttt gatttgattt 420
ttgcttttga tgaaaatgtc gcactgggat acccgggang aatgttaact tggcacagat 480
canaaccttt cacagaaaa 499
```

<210> 356

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 381

<223> n = A,T,C or G

<400> 356

```
gggcttctgc tgagggggca ggcggagctt gaggaaaccg cagataagtt ttttctctt 60
tgaaagatag agattaatac aactacttaa aaaatatagt caataggtta ctaagatatt 120
gcttagcggtt aagtttttaa cgtaatttta atagcttaag attttaagag aaaatatgaa 180
gacttagaag agtagcatga ggaaggaaaa gataaaagggt ttctaaaaca tgacggagggt 240
tgagatgaag cttcttcatg gagtaaaaaa tgtattttaa agaaaattga gagaaaggac 300
tacagagccc cgaattaata ccaatagaag ggcaatgctt ttagattaaa atgaagggtga 360
cttaaacagc ttaaagttta ntttaaaagt tgtaggtgat taaaataatt tgaaggcgat 420
cttttaaaaa gagattaaac ccgaagggtga ttaaaagacc ttgaaatcca tgacgccagg 480
gagaattgcc gtcattttaa gcctagttaa c 511
```

<210> 357  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 339, 457, 475, 486  
 <223> n = A,T,C or G

<400> 357  
 gatacttcac atttccctag ggacgggagc ccgaggggtc cgttcggccc tcttcctctc 60  
 gctggggcga caccgcgtg taggaccgta acccttagtc ccaatgcctc cgtaagcggg 120  
 gttgagtggg tgcctgtggt tggagctgtg gaggtgtccc cgttggcgag cgcggccaga 180  
 actgcggtca cttaaagttt ccgtgtgcgg gttgcaagga gcgtgcgtgc gtctggtata 240  
 atttggcttc ctgagattct gcttacaaga aaggagtggg aaataccctt ggaaagaaaa 300  
 ctaaaacagt aagaaaacca aaacttattt ttacatggnt gtcagcacat ttaccgatat 360  
 ggacactttt cccaataatt tcctcctggt ggagacagtg gattgacagg ttctcagtcg 420  
 gaattccaga aaaatgttaa ttgatgaaaa ggggtacnatg tgagcatcat aaagntaatt 480  
 attaanacac tgaaggctga acacacaagg g 511

<210> 358  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 358, 361, 372, 374, 386  
 <223> n = A,T,C or G

<400> 358  
 acggatgaag atgatgacct tcaagaaaat gaagacaata aacaacataa agaaagcttg 60  
 aaaagagtga cctttgcttt accagatgat gcggaaactg aagatacagg tgttttaaat 120  
 gtaaaagaaaa attctgatga agttaaatcc tcctttgaaa aaagacagga aaagatgaat 180  
 gaaaaaattg catctttaga aaaagagttg ttagaaaaaa agcccgtggc agcttcaggg 240  
 ggaagtgaac gcacagaaga ggccagagaa cacctcctgg aggagaccct acctttgcca 300  
 tctgcccgat ggccctgtga ttacagagga acccccttca ctggagattt ctttaacnga 360  
 ngatagagat cngnttgagg tatgtntcct taagaaaacc t 401

<210> 359  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 299, 318, 363, 381, 395, 412  
 <223> n = A,T,C or G

<400> 359  
 gcgatgcccg cgcgcccagg acgcctcctc ccgctgctgg cccggccggc ggccctgact 60  
 gcgctgctgc tgctgctgct gggccatggc ggcggcgggc gctggggcgc cggggcccag 120  
 gaggcggcgg cggcggcggc ggacgggccc ccgcggcag acggcgagga cggacaggac 180  
 ccgcacagca agcacctgta cacggccgac atgttcacgc acgggatcca gagcggccgc 240  
 gcacttcgtc atgttcttcg gcacctggtg tggacacttg ccagcggctt gcagccgant 300  
 ttggaatgac cttggganga acaaatacaa cagcatggaa agaattgcaa aagtctatgt 360  
 ggnttaaagt ggacttgacac nggccacttc gactngtgct cccccaaggg gnggggaagat 420

accacaccta aaacttttca accaagccaa aaactttgaa aaccaggtct cggattcaaa 480  
atggaaaact gatgttcaac ctgaacaaga a 511

<210> 360  
<211> 511  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 182, 187, 207, 218, 311, 359, 390, 401, 405, 412, 413, 435, 441  
<223> n = A,T,C or G

<400> 360  
tactgggaga ctttgagatt gagtccaaac agctggaagc agagtottgg agtcggataa 60  
tagacagcaa gtttctaaaa cagcaaaaga aagatgtggt caaacggcaa gaagtaatat 120  
atgagttgat gcagacagag ttatcatcatg tcccgaactct caagatcatg agtgggtgtgt 180  
cnagccnggg gatgatggcg gatctgnttt ttgagcanca gatggtagaa aaagctgggt 240  
ccctgtttgg atgagcttga tcagtatccc ataccattc ttccagagg attcttggag 300  
ccggaagaaa nggagtcctt ttgggtgggat aaaaagtga aaagaacttt ctcttcaana 360  
aggatagggg gatgtgcttt gtaaaatcan tttttcaggg ngganaatgc cnaaacggt 420  
ttaaagaaaa acatnttggg naagtttttg tgggccaaac ttaccgggtc ttgtaaacct 480  
accttcaaaag aacctttttg ccaggggta a 511

<210> 361  
<211> 411  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 228, 230, 338, 339, 348, 358, 379  
<223> n = A,T,C or G

<400> 361  
gctcagcggc ccgatccac ggaagcgcgc tcggaggggt gggaccggc cggaccggag 60  
atggcgccgc cagcgggcgg ggcggcgccg gcggcctcg acttgggctc cgccgcagt 120  
ctcttggctg tgcacgccgc ggtgaggccg ctgggcgccg ggccagacgc cgaagcacia 180  
cttgccggag ctgcagctta acgcggaccc tgagaagcct ggcgcttncn gctggaactt 240  
cttgccgcgg gacctggggc ggtaatttga gtggccctga gtcatttcta caccatccag 300  
gccaccaca cgactaagct cacaagaagg ctgaactnnc tgattctnaa cctagaanta 360  
cgtgcatcta tcagtgceng aagaaatgac aacataccac tggcaactct g 411

<210> 362  
<211> 511  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 472, 483, 500, 510  
<223> n = A,T,C or G

<400> 362  
cgggggaccg ggctgccttg gcccctcagc gctcgcgtct tttccggcag ttggaacgct 60  
tcctgttgtc ctaccccgta accgcctgtt gcccctgtc tcagagtccc tcacgcgtcc 120  
cctcccgtct ttggctcgtt ggctgccgcc gccggggcct cggcagcctt caagtgcaga 180

```

ctactggccg aaggggcgtc tgcggctctc cgccgtcccc agccctgcct ctccctgggc 240
tctgccatgg caatgacagg ctcaacacct tgctcatcca tgagtaacca cacaaggaa 300
agggtgacaa tgacaaaaag tgacactgga gaatttttat agcaacctta tcgtcacat 360
gaagaacgag aaatgagaca aaagaagtta gaaaaagggg atggaagaag aaggcctaaa 420
aaaatgaagg agaaaaccaa cttccgaaga tcaaccacat tgcttcggaa anggaaacaa 480
aantttcttt cgtttgaaan aaaaacaaan a
511

```

&lt;210&gt; 363

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 363

```

caggatctgg ggagaaagag ccccatccct tctctctctg ccaccatttc ggacaccccg 60
cagggactcg ttttgggatt cgcactgact tcaagggaagg acgcgaaccc ttctctgacc 120
ccagctcggg cggccacctg tctttgccgc ggtgaccctt ctctcatgac cctgcggtgc 180
cttgagccct ccgggaatgg cggggaaggg acgcggagcc agtgggggac cgcggggtcg 240
gcggaggagc catccccgca ggcggcgcgt ctggcgaaagg ccctgcggga gctcgggtcag 300
acaggatggt actggggaag tatgactgtt aatgaagcca aagagaaatt aaaagaggca 360
ccagaaggaa ctttcttgat tagagatagc tcgcattcag a
401

```

&lt;210&gt; 364

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 364

```

agtcaaaggt ttcttttccc tttttaccat ggttttctaca aaaataacct tcaggaaaaa 60
gaaaaatcagg aaaaaaattt tttttcaata atcttattcc ctatattaaa ttagatttga 120
agaggattaa cgttgtttta gtttgggtcc agatcagcct tataacaacat ttctaaactc 180
atthgtactt ttaaaaaatt taaacacaga cttctaaaat tacttgatgt aagtaattta 240
aatcacttat gaccaagtta ttaaccttat gaatcagaag tctgaccctt gtaggaaatt 300
atattcacat ataaagtaca tcagatcttt gccatatatt gatggttatt atgcataaac 360
acattgagtt gtgttggaag cagatttata aacctgcatg t
401

```

&lt;210&gt; 365

&lt;211&gt; 361

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

```

atctggagtt gcacaaatag ttcttttagaa cataaaacta aatggattta tacataacag 60
ttacattcag catttaagag aggcagtaca aaaatgtgtt ctgcttttat ctgatataaa 120
ttgcatgtaa taccatgatt taaacaatat cagttatatt aactaatgcc atgagatata 180
tcttactcag aacgtctgat gtttcccata atagacagaa aaaatgcagt tgtatgagca 240
actgagtttc ttttcatctt caaattcatt tgtgatggtg ggaagatcta aggacaatcc 300
ttccattgaa gaagtaggaa aaacagttca gcactgttct gaactcatca aaaatgaaat 360
t
361

```

&lt;210&gt; 366

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

```

cgggagcagc agaggtctag cagccgggag ccgcggggcc ggggcctgag gaggccacag 60
gacgggcgtc ttcccggcta gtggagcccg gcgcggggcc cgcctgcggcc gcaccgtgag 120
gggaggaggc cgaggaggac gcagcgccgg ctgccggcgg gagggaagcg tccaccaggg 180

```

```
ccccgcacgg cactcgttta accacatccg cgcctctgct ggaaacgctt gctggcgcct 240
gtcaccgggtt ccctccattt tgaaagggaa aaaggctctc cccaccattt cccctgcccc 300
taggagctgg agccggagga gccgcgctca tggcggttcag cccgtggcag atcctgtccc 360
ccgtgcagtg ggcgaaatgg acgtggtctg cggtaacggg c 401
```

<210> 367

<211> 401

<212> DNA

<213> Homo sapiens

<400> 367

```
catggagtcg ggcaagatgg cgcctcccaa gaacgctccg agagatgcct tggatgatggc 60
acagatcctg aaggatatgg gaatcacaga gtatgaacca aggggtataa atcaaattgtt 120
ggaatttgct ttccgttatg tgactacaat tctggatgat gcaaaaattt attcgagcca 180
tgctaagaaa cctaattgtt atgcagatga tgtgagactg gcaatccagt gtcgtgctga 240
ccaatctttt acctctctc cccaagaga ttttttactg gatatcgcaa ggcagaaaaa 300
tcaaaccctt ttgccactga ttaagccata tgcaggacct agactgccac ctgatagata 360
ctgcttaaca gtcctaaact ataggctgaa gtccttaatt a 401
```

<210> 368

<211> 401

<212> DNA

<213> Homo sapiens

<400> 368

```
cggagcggta ggagcagcaa tttatccgtg tgcagcccca aactggaaag aagatgctaa 60
ttaaagtga gacgctgacc ggaaaggaga ttgagattga cattgaacct acagacaagg 120
tggagcgaat caaggagcgt gtggaggaga aagagggaaat cccccacaa cagcagaggc 180
tcatctacag tggcaagcag atgaatgatg agaagacagc agctgattac aagatttttag 240
gtggttcagt ccttcacctg gtgttggtctc tgagaggagg aggtggtctt aggcagtgat 300
ggaccctcca ttttacctct ttaccctgtc gtcataatg aggcatacata tatcctctca 360
ctctctggga caccatagcc ctgccccctc ccctggatgc c 401
```

<210> 369

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 7

<223> n = A,T,C or G

<400> 369

```
gcgagnnggg cgccaagcgc ggggccggag cggccttccc ggagtccttt gcgcggcacc 60
tggcgacaaa atggctgccc gagggagacg ggcggagcct cagggccggg aggctccggg 120
ccccgcgggc ggtggcggtg gcgggagccg ttgggctgag tcgggatcgg ggac 174
```

<210> 370

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 89, 117, 147, 232

<223> n = A,T,C or G



&lt;400&gt; 370

```
tgctttttcca actttatttta gaaaaacaaa tccaggtccc agtgccccct gtaccctccc 60
cgaccccagc cataatttta ataaacttana gacagagttg gagggagggg acagganagg 120
ttgggggtcac ggtggaagga ggaaganagc ccactacagc cgccgcagcg cccgcttctt 180
gtccgtctttt ttcttgcccg ccagcttctt atcgcgctcg ccagcatgct tnttggccat 240
gggaccctca gcccctcccg ggccccctgg ggccccaggg tcggtggagg aagcttcagt 300
gccactggcc agggcccgcg cggcttcggc cctgccgctg ggcccgcgcg cgcccccggtg 360
gatctctgtg agcag                                     375
```

&lt;210&gt; 371

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 114, 188, 317

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 371

```
taaattctaa aaaatatttt aatacttgaa aacttctaaa acaaaaggta aggtaacatg 60
ttctttcaaaa agtgaatttc acatgcaaac cattaattat atttatttta ctgngagata 120
aaagcaaaaac ataacattcg gagaaagaga ccagtaactg acctatttat ttatatattat 180
attaatgnga atcctcatta gaaatgtgat aacgttattg cacaaaacaaa accgtgggca 240
gaaacatccc agcaatgcag gggcgcccat accgggttac aagggatgtc cagcatgtgt 300
ttccctggaa cactcanagt ctgcactttt cctgcaaagt ggaccatgtc tgattatttta 360
ttatgaaaga acact                                     375
```

&lt;210&gt; 372

&lt;211&gt; 164

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 9

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 372

```
cgctctgtnt cctcaacctc tacctggcgg aggttatatg taaagtcaga tgtgccactg 60
aacttgacag acacaaaatt ctactgcatt tgggctttat aatggcaagc ctgctctttt 120
tagtggtgaa cttgacttgc gcaatgctag ttcattggaga tgctc                                     164
```

&lt;210&gt; 373

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 373

```
gcgctgttcg cttttgccta cctgcagctg tggcggctgc tcctgtaccg cgagcggcgg 60
ctgagttacc agagcctctg cctcttcctc tgtctcctgt gggcagcgt caggaccacc 120
ctcttctccg ccgccttctc gctcagcggc tccctgccct tgctccggcc gcccgtcac 180
ctgcacttct tccccactg gctgctctac tgcttcccct cctgtctcca gttctccacg 240
ctctgtctcc tcaacctcta cctggcggag gttatatgta aagtcagatg tgccactgaa 300
cttgacagac acaaaaattct actgcatttg ggctttataa tggcaagcct gctcttttta 360
gtggtgaact tgacttgccg aatgctagtt catggagatg t                                     401
```

&lt;210&gt; 374

<211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 374  
 ggaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagttcg 60  
 aacttggtaa cctgtgtatg gtgactggag gtgctaacct aggaagaatt ggtgtgatca 120  
 ccaacagaga gaggcaccct ggatcttttg acgtggttca cgtgaaagat gccaatggca 180  
 acagctttgc cactcgactt tccaacattt ttgttatttg caagggcaac aaaccatgga 240  
 tttctcttcc ccgaggaaaag ggtatccgcc tcaccattgc tgaagagaga gacaaaagac 300  
 tggcggccaa acagagcagt ggggtgaaatg ggtccctggg tgacatgtca gatctttgta 360  
 cgtaattaaa aatattgttg caggattaat agcaaaaaaa a 401

<210> 375  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 375  
 gagcggagtc cgctggctga cccgagcgct ggtctccgcc gggaaccctg gggcatggag 60  
 aggtctgagt acctcggccg cggcgcacgc tgcctcgcgg agccaggccg aggacgtgag 120  
 ggtggagggc tcccttcccg tgaccatgct tccgggagac ggtgtggggc ctgagctgat 180  
 gcacgcctgc aaggaggtgt tcaaggctgc cgctgtccca gtggagtcc aggagcacca 240  
 cctgagttag gtgcagaata tggcatctga ggagaagctg gagcagggtgc tgagttccat 300  
 gaaggagaac aaagtggcca tcattggaaa gattcatacc ccgatggagt ataaggggga 360  
 gctagcctcc tatgatatgc ggctgaggcg taagttggac t 401

<210> 376  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 86, 260  
 <223> n = A,T,C or G

<400> 376  
 ggaacaaggt cgtgaaaaaa aaggtcttgg tgaggtgccg ccatttcac tgcctcatt 60  
 ctctgcgcct ttgcagagc ttccancagc tggatgttg ggccagagca tccggagggt 120  
 cacaacctct gtggtccgta ggagccacta tgaggagggc cctgggaaga atttgccatt 180  
 ttcagtggaa aacaagtggc cgttactagc taagatgtgt ttgtactttg gatctgcatt 240  
 tgctacaccc ttccttgtan taagacacca actgcttaaa acat 284

<210> 377  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 377  
 atttatgtta ttgcactctc ggtgtgattt atcgtatgta tctgataggt tttatgaatt 60  
 gttttgagtt gtaaaactcc atacccttta ttaaaatgga cctaattaag tgatttatgc 120  
 tttgtgcaat ttcttaaato agatctctct aggattgaag ggatccatag gtatctttca 180  
 cttagtgtga agcctagtag tatactttta tattcctgaa gagagaccag cattaacata 240  
 aagagagaag tcttaggaaa aaatatacct aagaattatt tttaaaattc atactgtgaa 300  
 ggagaatctg cctgcctatt tcctctccaa atttcagaaa ataacacaga gtgctatttg 360  
 cctgaacttt aatgagcttg actttgttat gattcaggga g 401

<210> 378  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 378  
ccagaacaca ggtgtcgtga aaactacccc taaaagccaa aatgggaaag gaaaagactc 60  
atatcaacat tgtcgtcatt ggacacgtag attcgggcaa gtccaccact actggccatc 120  
tgatctataa atgcggtggc atcgacaaaa gaaccattga aaaatttgag aaggaggctg 180  
ctgagatggg aaagggctcc ttcaagtatg cctgggtcct ggataaactg aaagctgagc 240  
gtgaacgtgg tatcaccatt gatctctcct tgtggaaatt tgagaccagc aagtactatg 300  
tgactatcat tgatgcccca ggacacagag actttatcaa aaacatgatt acagggacat 360  
ctcaggctga ctgtgctgtc ctgattgttg ctgctgggtg t 401

<210> 379  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 379  
tcagatatca ggtggcttct tcaaatgatt ttttaagtatc tcgatgatga tgaagaacaa 60  
agacatcaat caggattcag gaagacagct tttgcggaaa atgcttaaag ggaagcatca 120  
aggattgggtg ttgatatttg aaagttaaag agtgggtatac ttttattcag tcaacacatg 180  
acaaatgtaa aaggcactca tttgttgttc ctggaagaag cctggcagca ttccattcag 240  
acatctgccc tttcatcgtc ccacttttta cttattgcag tcctttcagt ctgaatattt 300  
cctcctgacg catcttctgc cgtccgaaat gactccctgc tcccagatcc tgtagccctt 360  
attattgaca cctttcattt agaaatttag cacatgtcac a 401

<210> 380  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 380  
cctgactctc tgaggctcat tttgcagttg ttgaaattgt ccccgagtt ttcaatcatg 60  
tctgaaccaa tcagagtcct tgtgactgga gcagctggtc aaattgcata ttcactgctg 120  
tacagtattg gaaatggatc tgtctttggt aaagatcagc ctataattct tgtgctgttg 180  
gatatcacc ccatgatggg tgtcctggac ggtgtcctaa tggaaactgca agactgtgcc 240  
cttccccctc tgaaagatgt catcgcaaca gataaagaag acgttgcctt caaagacctg 300  
gatgtggcca ttcttgtggg ctccatgcca agaagggaag gcatggagag aaaagattta 360  
ctgaaagcaa atgtgaaaat cttcaaatcc cagggtgcag c 401

<210> 381  
<211> 401  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 90, 93  
<223> n = A,T,C or G

<400> 381  
ggggcttcgc tggcagtcgt aacggcaagc ttgagcaacg cggtaaaaat attgcttcgg 60  
tgggtgacgc ggtacagctg tocaagggcn ttngtaacgg gaatgccgaa gcgtgggaaa 120  
aagggagcgg tggcggaaga cggggatgag ctcaggacag agccagaggc caagaagagt 180  
aagacggccg caaagaaaaa tgacaaagag gcagcaggag agggcccagc cctgtatgag 240  
gacccccag atcagaaaaa ctcaccacgt ggcaaacctg ccacactcaa gatctgctct 300

tggaatgtgg atgggcttcg agcctggatt aagaagaaag gattagattg ggtaaaggaa 360  
gaagccccag atatactgtg ccttcaagag accaaatgtt c 401

<210> 382

<211> 491

<212> DNA

<213> Homo sapiens

<400> 382

gagcagcccc cggcggctga aagccggggc agaagtgtg gtctcggtcg ggattccggg 60  
cttgggtccca ccgaggcggc gactgcggta ggagggaaag ggttttggac gcgctggcct 120  
cccgcgctg tgcatcgcag cattatttca gttcaaaatg aactatatgc ctggcaccgc 180  
cagcctcatc gaggacattg acaaaaagca cttggttctg cttcgagatg gaaggacact 240  
tataggcttt ttaagaagca ttgatcaatt tgcaaaacta gtgctacatc agactgtgga 300  
gcgtattcat gtgggcacaaa aatacgggtg tattcctcga gggatttttg tggtcagagg 360  
agaaaaatgtg gtcctactag gagaaataga cttggaaaag gagagtgaca caccctcca 420  
gcaagtatcc attgaagaaa ttctagaaga acaaaggggtg gaacagcaga ccaagctgga 480  
agcagagaag t 491

<210> 383

<211> 491

<212> DNA

<213> Homo sapiens

<400> 383

gagtcctatct cagcgcctgg aaaatgcagt gaaaaaacct gaagataaaa aggaagtttt 60  
cagacccctc aagcctgtcg gcgaagtgga tctgaccgca ctggccaaaag agcttcgagc 120  
agtggaaagat gtacggccac ctcacaaagt aacggactac tcctcatcca gtgaggagtc 180  
ggggacgacg gatgaggagg acgacgatgt ggagcaggaa ggggctgacg agtccacctc 240  
aggaccagag gacaccagag cagcgtcatc tctgaatttg agcaatggtg aaacggaatc 300  
tgtgaaaacc atgattgtcc atgatgatgt agaaagttag ccggccatga ccccatccaa 360  
ggagggcact ctaatcgtcc gccagagtac agttgaccaa aagcgtgcca gccatcatga 420  
gagcaatggc tttgccgtc gcattcacct cttgccagat ctcttacagc aaagccattc 480  
ctcctccact t 491

<210> 384

<211> 491

<212> DNA

<213> Homo sapiens

<400> 384

gagcctaata tcaggtggtc cccccgagac cccttgagca ccaaccctag tccccgcgc 60  
ggcccccttat tcgctccgac aaggtaaaaa aaggctctgg acggcggcgt ggtaggagga 120  
cgggagcggg ggcgggaagt tccctgaagg agcgagacag ggagggacag ggcagaggag 180  
gagaggaagg cgatgcgacg gacaggcgca cccgctcagg ctgactctcg ggggcgaggt 240  
cgagccaggg gcggctgccc tgggggcgag gcgacgctgt ctcaacctcc acctcgcggc 300  
ggaacccgag gacaggagcc tcagatgaaa gaaacaatca tgaaccagga aaaactcgcc 360  
aaactgcagg cacaagtgcg cattggtggg aaaggaactg ctgcagaaa gaagaagggtg 420  
gttcatagaa cagccacagc agatgacaaa aaacttcagt tctccttaaa gaagttaggg 480  
gtaaacaata t 491

<210> 385

<211> 483

<212> DNA

<213> Homo sapiens

<400> 385

agccgctgcg aaggagagccg ccgccatgtc tgcgcatctg caatggatgg tcgtgcggaa 60

```

ctgctccagt ttctgatca agaggaataa gcagacctac agcactgagc ccaataactt 120
gaaggcccgcc aattccttcc gctacaacgg actgattcac cgcaagactg tgggcgtgga 180
gccggcagcc gacggcacaag gtgtcgtggt ggtcattaag cggagatccg gccagcggaa 240
gcctgccacc tcctatgtgc ggaccacat caacaagaat gctcgcgcca cgctcagcag 300
catcagacac atgatccgca agaacaagta ccgccccgac ctgctgatgg cagccatccg 360
cagggccagc gccatcctgc gcagccagaa gcctgtgatg gtgaagagga agcggacccg 420
ccccaccaag agctcctgag cccctgccc ccagagcaat aaagtcagct ggctttctca 480
cct 483

```

&lt;210&gt; 386

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 386

```

aggtggaagg aaaaaacata aatgaagtta atgcacttct tttcctagcc caaaagtcac 60
tgtgattata tttttttaat gaagtttaga aaaaaagctg ttgtcttctc aattgtaaaa 120
ttagtttcaa aatgctgctt ctcttatcat tagtctagta attgttgaac ttttctgcaa 180
actgcattttt acaaaattga aacttggaag ctgtattaac ttttatagtt aaacattgta 240
ttaaataaac tatactataa taaacagttt ggttttgtat tttttaaat gtattatcca 300
gccttttaaa aattaaaagc taaataatga aaataaacca attaaaacat acttttactc 360
tcagatatac aggtatttac attatgaaaa aactgaacaa agttttaaca atactgagct 420
ttaagaattt agccagcagc gaaaatttcc aggtttgaga atgttctaata gtaaatattt 480
aatcataata c 491

```

&lt;210&gt; 387

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 387

```

ccacaccacc gtgtcccaag tccagcccc tccctccaag gcatcagcac ctgaaccccc 60
tgcagaagaa gaagtggcaa ctggtacaac ctgagcctct gatgacctgg aagccctggg 120
tacactgagc ctggggacca cagaggagaa ggcagcagct gaggcggctg tgcccaggag 180
cattggggcc gagctgatgg agctgggtcg gagaaacact ggcttgagcc acgaattatg 240
ccgggtggcc atcggcatca tagtgggtca catccaggcc tcggtgccgg ccagctcacc 300
agtcatggag caggtcctcc tctcactcgt agagggcaag gacctcagca tggccctgcc 360
ctcagggcag gtctgccacg accagcagag gctggagggt atctttgcag acctggctcg 420
ccggaaggac gacgccagc agcgcagttg ggcactatat gaggatgagg gtgtcatccg 480
ctgctaccta g 491

```

&lt;210&gt; 388

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

```

gagactatca aactcctgag ccaacaactt aatatgacta gottacacaa tagcttttat 60
agtaaagata cctctttacg gactccactt atgactccct aaagcccctg tcgaagcccc 120
catcgtctgg tcaatagtag ttgccgcagt actcttgaaa ctaggcggct atgggtataat 180
acgcctcaca ctcatctca accccctgac aaaacacata gcctaccctt tcttctgtact 240
atccctatga ggcataatta taacaagctc catctgccta cgacaaacag acctaaaatc 300
gtcatttgca tactcttcaa tcagccacat agccctcgta gtaacagcca ttctcatcca 360
aaccctctga agcttcaccg gcgcagtcac tctcataatc gccacaggac ttacatcctc 420
attactattc tgcctagcaa actcaaaact cgaacgcact cacagtcgca tcataatcct 480
ctctcaagga c 491

```

&lt;210&gt; 389

<211> 511  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 43, 133, 185, 226, 254, 256, 303  
 <223> n = A,T,C or G

<400> 389  
 tactgatatac tctttaatac tttcatcatt caagtttgtt canaacatta caagaggcat 60  
 gaaagaaaaa ataattccat ttttaaaact ctgtctgtcc aaagtataac atatgaaacc 120  
 atgccattat ctnttaggaa acaaaagcat tcaaaattaa tttggtatta aagttcaaga 180  
 ttcanaactaa cctcaaagta cggcatgtgc agtgtttaag tgcaanaagt attttcattc 240  
 caattatttt acananaatgc tggagtgcacg tgtgcaattt gaaatattca aatcctttaa 300  
 ggnntctgaa ctaagtgttt aaatgaaaac tgaaatgctg catagtttca gtggctttca 360  
 atttcctgtt tgatctcaga aatatatgga tgatctttgc cgtgagctac ttccatgatt 420  
 gcaatggcct tcttcagggc tttctcccct gcggctttgt gttccaggcc catgtagagt 480  
 ctccctagct tcaaccacat ggaggccacg t 511

<210> 390  
 <211> 1984  
 <212> DNA  
 <213> Homo sapiens

<400> 390  
 cctgggggta gaggctgggg tgggtggggg gtaagggggc agtccttctc cccttcgacg 60  
 gcggctccga gtccagcccc ttccctcccc cgctcgctcg cccggccccc agcccccctca 120  
 tgagggtgtc cgtgccgggt ccggcggccg ctgccgcccc cgcagccggc cgcgagccct 180  
 ccacgcccgg cggggggcagc ggaggcggag gcgcccgcgc tgcagccctca ggcgcccggg 240  
 tgcggggctc cgtgcagttg gcgctgagcg tcctgcacgc cctgctctac gccgcgctgt 300  
 tcgccttttg ctacctgcag ctgtggcggc tgctcctgta ccgcgagcgg cggctgagtt 360  
 accagagcct ctgcctcttc ctctgtctcc tgtgggacgc gtcagggacc accctcttct 420  
 ccgcccctt ctgcctcagc ggctccctgc ccttgctccg gccgcccgt cacctgcact 480  
 tcttccccca ctggctgtc tactgttcc cctcctgtct ccagttctcc acgctctgtc 540  
 tcctcaacct ctacctggcg gaggttatat gtaaagtcag atgtgccact gaacttgaca 600  
 gacacaaaat tctactgcat ttgggcttta taatggcaag cctgctcttt ttagtggtga 660  
 acttgacttg cgcaatgcta gtccatggag atgtcccaga aaatcagttg aagtggactg 720  
 tgtttgttcg agcattaatt aatgatagcc tgtttattct ttgtgccatc tcttttagtgt 780  
 gtacatatg caaaattaca aaaatgtcat cagctaattgt ctacctcgaa tcaaagggta 840  
 tgtctctgtg ccagactgtc atcgtgggct ctgtagtcat tcttctgtac tcttcagag 900  
 cttgttataa tttggtggtg gtcaccatat ctccaggatac attagaaagt ccatttaatt 960  
 atggctggga taatctttca gataaggctc atgtagaaga cataagtga gaagagtata 1020  
 tagtatattg aatggtcctc tttctgtggg aacatgtgcc agcatggtcg gtggtactgt 1080  
 ttttccgggc acagagatta aaccagaatt tggcacctgc tggcatgata aatagtcaca 1140  
 gttatagttc cagagcttac tttttcgaca atccaagacg atatgatagt gatgatgacc 1200  
 tgccaagact gggaaagttc agagaaggaa gtttaccaa ttcgcaaagt ttgggctggg 1260  
 atggcaccat gactgggtgt ggcagcagca gttacacagt cactccccac ctgaatggac 1320  
 ctatgcagca tactgtcctc ttgctcttta ctgttagtaa tttagatttg aacaatcatc 1380  
 atagcttata tgtgacacca caaaactgac agcatcacca agtcatgatt cttgagttgt 1440  
 ttttcataaa tgtgtatatt caatgtgttt aaattccatc tacataaaca ttccattatc 1500  
 tgttgcaact gaaaacaaaa tctggaagtg tggctgtgtt tggtaaataa cacagctatt 1560  
 atttttgacc tottcatagt aaaatgaagt aaaatggaaa gtttgagta ggagaaaaga 1620  
 gagattagat ctttaaggcac ttgatggcct ccaaaaatcc tgactttgga acatcaaagt 1680  
 catatgtgca cttttatctt tgttctgagt cactgcagtc cccaaagtca tatgccaatg 1740  
 ttcacactga aatactgtat tgtacaccaa actggaaggc aattttccta tgaaaatcaa 1800  
 agccgggtata ttcattggta tgctctatac agatatctta ataaaaatct tatagtgtga 1860  
 acagtgcaca gagttaaggc ataaaaatgt atcattcttt ataaaaatct actgaaaatg 1920

tgtaatcatt gaagacagtt cttttaagca tgatttttaa atagcaactg aaattcaatc 1980  
 attt 1984

<210> 391

<211> 429

<212> PRT

<213> Homo sapien

<400> 391

Met	Arg	Val	Ser	Val	Pro	Gly	Pro	Ala	Ala	Ala	Ala	Ala	Pro	Ala	Ala
				5					10					15	
Gly	Arg	Glu	Pro	Ser	Thr	Pro	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ala
			20					25					30		
Val	Ala	Ala	Ala	Ser	Gly	Ala	Ala	Val	Pro	Gly	Ser	Val	Gln	Leu	Ala
			35				40						45		
Leu	Ser	Val	Leu	His	Ala	Leu	Leu	Tyr	Ala	Ala	Leu	Phe	Ala	Phe	Ala
		50				55						60			
Tyr	Leu	Gln	Leu	Trp	Arg	Leu	Leu	Leu	Tyr	Arg	Glu	Arg	Arg	Leu	Ser
		65			70					75					80
Tyr	Gln	Ser	Leu	Cys	Leu	Phe	Leu	Cys	Leu	Leu	Trp	Ala	Ala	Leu	Arg
				85					90						95
Thr	Thr	Leu	Phe	Ser	Ala	Ala	Phe	Ser	Leu	Ser	Gly	Ser	Leu	Pro	Leu
			100					105						110	
Leu	Arg	Pro	Pro	Ala	His	Leu	His	Phe	Phe	Pro	His	Trp	Leu	Leu	Tyr
			115				120					125			
Cys	Phe	Pro	Ser	Cys	Leu	Gln	Phe	Ser	Thr	Leu	Cys	Leu	Leu	Asn	Leu
			130			135						140			
Tyr	Leu	Ala	Glu	Val	Ile	Cys	Lys	Val	Arg	Cys	Ala	Thr	Glu	Leu	Asp
					150					155					160
Arg	His	Lys	Ile	Leu	Leu	His	Leu	Gly	Phe	Ile	Met	Ala	Ser	Leu	Leu
				165					170						175
Phe	Leu	Val	Val	Asn	Leu	Thr	Cys	Ala	Met	Leu	Val	His	Gly	Asp	Val
				180				185						190	
Pro	Glu	Asn	Gln	Leu	Lys	Trp	Thr	Val	Phe	Val	Arg	Ala	Leu	Ile	Asn
				195			200					205			
Asp	Ser	Leu	Phe	Ile	Leu	Cys	Ala	Ile	Ser	Leu	Val	Cys	Tyr	Ile	Cys
				210		215					220				
Lys	Ile	Thr	Lys	Met	Ser	Ser	Ala	Asn	Val	Tyr	Leu	Glu	Ser	Lys	Gly
				225		230				235					240
Met	Ser	Leu	Cys	Gln	Thr	Val	Ile	Val	Gly	Ser	Val	Val	Ile	Leu	Leu
				245					250						255

Tyr Ser Ser Arg Ala Cys Tyr Asn Leu Val Val Val Thr Ile Ser Gln  
 260 265 270  
 Asp Thr Leu Glu Ser Pro Phe Asn Tyr Gly Trp Asp Asn Leu Ser Asp  
 275 280 285  
 Lys Ala His Val Glu Asp Ile Ser Gly Glu Glu Tyr Ile Val Phe Gly  
 290 295 300  
 Met Val Leu Phe Leu Trp Glu His Val Pro Ala Trp Ser Val Val Leu  
 305 310 315 320  
 Phe Phe Arg Ala Gln Arg Leu Asn Gln Asn Leu Ala Pro Ala Gly Met  
 325 330 335  
 Ile Asn Ser His Ser Tyr Ser Ser Arg Ala Tyr Phe Phe Asp Asn Pro  
 340 345 350  
 Arg Arg Tyr Asp Ser Asp Asp Asp Leu Pro Arg Leu Gly Ser Ser Arg  
 355 360 365  
 Glu Gly Ser Leu Pro Asn Ser Gln Ser Leu Gly Trp Tyr Gly Thr Met  
 370 375 380  
 Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr Pro His Leu Asn Gly  
 385 390 395 400  
 Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr Cys Ser Asn Leu Asp  
 405 410 415  
 Leu Asn Asn His His Ser Leu Tyr Val Thr Pro Gln Asn  
 420 425

&lt;210&gt; 392

&lt;211&gt; 1584

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 392

ggaagactgg agcctttgcg gcggcgctgc ccctcccctg gtccccgcga gctcggaggg 60  
 cccggctggg gctgcggggg ccccgaggag ttgaaaacta agcatgggga agagctgcaa 120  
 ggtggtcgtg tgtggccagg cgtctgtggg caaaacttca atcctggagc agcttctgta 180  
 tgggaaccat gtagtgggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240  
 cattgagaca gaccgggggg tgcgagagca ggtgcgtttc tatgacaccc gggggctccg 300  
 agatggggcc gaactgcccc gacactgctt ctcttgcaact gatggctacg tcctgggtcta 360  
 tagcacagat agcagagagt cttttcagcg tgtggagctg ctcaagaagg agattgacaa 420  
 atccaaggac aagaaggagg tcaccatcgt ggtccttggc aacaagtgtg acttacagga 480  
 gcagcggcgt gtagaccag atgtggctca gcactgggccc aagtcagaga aggtgaagct 540  
 gtgggaggtg tcagtggcgg accggcgctc cctcctggag ccctttgtct acttggccag 600  
 caagatgacg caaccccaga gcaagtctgc cttccccctc agccggaaga acaagggcag 660  
 cggctccttg gatggctgaa gagctgccgt tcctctttca cgatcccagc cccatttcag 720  
 tgtctggggc tctggtagat gtgttgaggg caaagtagag gacaagctgt ctttccagct 780  
 cagccaggga gctccccgcc aggccacgcc ccagccactt tgctccctct cacctctggg 840  
 aagtgcaaact actcttggtt gacatcccct tcctcagccc tcccagccta ctcccacatc 900  
 cagcttttag aggatctgct ccactgtctc ctggggcagt tgtgggtoac tgtcccttcc 960  
 agctgccccca gacaggaagc agagtcacca cgcagcagtg tcccttcttg ggtctgagtt 1020  
 cctattatag gtaggggccc caccctctgg gcttcccac acgcacacac acacacttat 1080



```

ggcaccagcc tggactccag aaaaaggggtg tccaggtatt gtgtgtatgc atttagttgt 1140
gcacacacaa atatgtcctt atactggcat taggcgtctc ctcacccctc accctgacct 1200
ttctcctgtc cttttcttgg ctggaagaag ttggcctcct gggagtgtag ttttctgttt 1260
taaatcccc acccctggct gggctcagtg gctcaccctt gtaatcccag cactttggga 1320
ggccaaggcg ggtcgattac ttgaggtcag gagttcacga ccagcctggc caacattgtg 1380
aaaccccatc tctgccaaaa atacaaaagt tagccgggcg tagtggcaca tgctgtaat 1440
cccagctacc cggggaggct gaggcaggag aattgcttga actcagaagg cggaggctgc 1500
agtgagccga gatcgtgcc a ctgcactcca gcctgggtcaa cagagcaaga ctccatctcg 1560
aaaaaaaaa aaaaaaaact cgag 1584

```

&lt;210&gt; 393

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 393

```

Met Gly Lys Ser Cys Lys Val Val Val Cys Gly Gln Ala Ser Val Gly
                    5                      10                      15

```

```

Lys Thr Ser Ile Leu Glu Gln Leu Leu Tyr Gly Asn His Val Val Gly
                20                      25                      30

```

```

Ser Glu Met Ile Glu Thr Gln Glu Asp Ile Tyr Val Gly Ser Ile Glu
                35                      40                      45

```

```

Thr Asp Arg Gly Val Arg Glu Gln Val Arg Phe Tyr Asp Thr Arg Gly
                50                      55                      60

```

```

Leu Arg Asp Gly Ala Glu Leu Pro Arg His Cys Phe Ser Cys Thr Asp
                65                      70                      75                      80

```

```

Gly Tyr Val Leu Val Tyr Ser Thr Asp Ser Arg Glu Ser Phe Gln Arg
                85                      90                      95

```

```

Val Glu Leu Leu Lys Lys Glu Ile Asp Lys Ser Lys Asp Lys Lys Glu
                100                     105                     110

```

```

Val Thr Ile Val Val Leu Gly Asn Lys Cys Asp Leu Gln Glu Gln Arg
                115                     120                     125

```

```

Arg Val Asp Pro Asp Val Ala Gln His Trp Ala Lys Ser Glu Lys Val
                130                     135                     140

```

```

Lys Leu Trp Glu Val Ser Val Ala Asp Arg Arg Ser Leu Leu Glu Pro
                145                     150                     155                     160

```

```

Phe Val Tyr Leu Ala Ser Lys Met Thr Gln Pro Gln Ser Lys Ser Ala
                165                     170                     175

```

```

Phe Pro Leu Ser Arg Lys Asn Lys Gly Ser Gly Ser Leu Asp Gly
                180                     185                     190

```

&lt;210&gt; 394

&lt;211&gt; 1937

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 394

```

ccggttcccc cagctctggg taccgggctc tgcacgcgct cgccatgatg ggccatcgtc 60
cagtgtcgtg gctcagccag aacacaaagc gtgaatccgg aagaaaagtt caatctggaa 120
acatcaatgc tgccaagact attgcagata tcatccgaac atgtttggga cccaagtcca 180
tgatgaagat gcttttggac ccaatgggag gcatttgtat gaccaatgat ggcaatgcca 240
ttcttcgaga gattcaagtc cagcatccag cggccaagtc catgatcgaa attagccgga 300
cccaggatga agaggttgga gatgggacca catcagtaat tattcttgca ggggaaatgc 360
tgtctgtagc tgagcacttc ctggagcagc agatgcaccc aacagtgggtg atcagtgttt 420
accgcaaggc attggatgat atgatcagca ccctaaagaa aataagtatc ccagtcgaca 480
tcagtgcagc tgatatgatg ctgaacatca tcaacagctc tattactacc aaagccatca 540
gtcgggtggc atctttggct tgcaacattg ccctggatgc tgtcaagatg gtacagtttg 600
aggagaatgg tcggaaagag attgacataa aaaaatatgc aagagtggaa aagataacctg 660
gaggcatcat tgaagactcc tgtgtcttgc gtggagtcac gattaacaag gatgtgacct 720
atccacgtat gcggcgctat atcaagaacc ctgcatttgt gctgctggat tcttctctgg 780
aatacaagaa aggagaaagc cagactgaca ttgagattac acgagaggag gacttcacct 840
gaattctcca gatgaggaa gagtacatcc agcagctctg tgaggacatt atccaactga 900
agcccgatgt ggtcatcact gaaaagggca tctcagattt agctcagcac taccctatgc 960
gggccaatat cacagccatc cgcagagtcc ggaagacaga caataatcgc attgctagag 1020
cctgtggggc ccgatagatc agccgaccag aggaactgag agaagatgat gttggaacag 1080
gagcaggcct gttggaatc aagaaaattg gagatgaata ctttactttc atcactgact 1140
gcaaagacc caaggcctgc accattctcc tccggggggc tagcaaagag attctctcgg 1200
aagtagaac caacctccag gatgccatgc aagtgtgtcg caatgttctc ctggaccctc 1260
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tcattcctcg taccctgatc cagaactgtg gggccagcac catccgtcta ctacctccc 1440
ttcggggcaa gcacaccag gagaactgtg agacctgggg tgtaaattggg gagacgggta 1500
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ataagacagc agtgagagc gcagttctgc tactgcgaat tgatgacatc gtttcaggcc 1620
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gagtgttag caaggctact tcaatgcaca gaaccagcag agtctccctt tttcctgagc 1740
cagagtcca ggaacactgt ggacgtcttt gttcagaagg gatcaggttg gggggcagcc 1800
ccagtaacct ttctgtccca gctcagtttt ccaaaaagaca ctgacatgta attcttctct 1860
attgtaaggt ttccatttag tttgcttccg atgattaaat ctaagtcatt tgaaaaaaa 1920
aaaaaaaaa actcgag 1937

```

&lt;210&gt; 395

&lt;211&gt; 1675

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 395

```

gcgcgaatcg cggctcgcgag ccatggagga ggaggcatcg tccccggggc tgggctgcag 60
caagccgcac ctggagaagc tgacctggg catcacgcgc atcctagaat cttccccagg 120
tgtgactgag gtgaccatca tagaaaagcc tcctgtgtaa cgtcatatga tttcttctct 180
ggaacaaaag aataactgtg tgatgcctga agatgtgaag aactttttacc tgatgaccaa 240
tggtttccac atgacatgga gtgtgaagct ggatgagcac atcattccac tgggaagcat 300
ggcaattaac agcatctcaa aactgactca gctcaccagc tcttccatgt attcacttcc 360
taatgcacc actctggcag acctggagga cgatacacat gaagccagtg atgatcagcc 420
agagaagcct cactttgact ctgcagtgat gatatttgag ctggattcat gcaatggcag 480
tgggaaaagt tgccttgtct acaaaagtgg gaaaccagca ttagcagaag acactgagat 540
ctggttctct gacagagcgt tatactggca ttttctcaca gacaccttta ctgcctatta 600
ccgcctgtct atcaccacc tgggcctgcc ccagtggcaa tatgccttca ccagctatgg 660
cattagccca caggccaagc aatggttcag catgtataaa cctatcacct acaacacaaa 720
cctgtctaca gaagagaccg actcctttgt gaataagcta gatcccagca aagtgtttaa 780
gagcaagaac aagatcgtaa tccccaaaaa gaaaggccct gtgcagcctg cagggtggca 840
gaaagggccc tcaggaccct ccggtccctc cacttccctc acttctaaat cctcctctgg 900
ctctggaaac cccaccggga agtgagcacc cctccctcca actccctacc agctccagag 960
tgggtggttc catgcacaga tggccctagg ggtgacctcc agttttgcgt gtggaccgta 1020
ggcctctttc tagttgaatg accaaaattg taaggctttt agtccaccg acattagcca 1080

```

```

ggctcgtagt gaggcctcca gagcaggttg tgctgtcccc tgcctctgga agcaatgggg 1140
aatttggaat cttgtgtaag tgcccaaata agtctgagtg ctttcctctt cttcaacact 1200
caaccctcaa tcccttagca ctgattgatt agagaggtcc cccaaagaaa ccactgggtt 1260
tgacccatga agcattagaa ctgcattggt cattcaggag ccactagtca catatgacta 1320
tttaaattta aagtaaattg tatgaaaaat tcatttcttc aattgcatta gccacatttt 1380
gagtattcat gtggctggta gattctgtat tagcaciaag atatggaaca tttccatcac 1440
cacagaaagt tctgttggac agcactgcat tagaatattt tcatactgct cttcctcaat 1500
taatttttgt tgtaaattgt gatgtcttca ttggatgggt cataatgttc catgaaacct 1560
ctcaagtaca caattgtatg ttctttgtat cccttaccac aaatatctcg ctctgctcat 1620
ttcttttgca gcttcctata aagtttgtct tcctcatcaa aaaaaaaaaa aaaaa 1675

```

&lt;210&gt; 396

&lt;211&gt; 559

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 396

```

Gly Ser Pro Ser Ser Gly Tyr Pro Ala Leu His Arg Val Ala Met Met
                    5                      10                      15

Gly His Arg Pro Val Leu Val Leu Ser Gln Asn Thr Lys Arg Glu Ser
                    20                      25                      30

Gly Arg Lys Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile Ala
                    35                      40                      45

Asp Ile Ile Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met Leu
                    50                      55                      60

Leu Asp Pro Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala Ile
                    65                      70                      75                      80

Leu Arg Glu Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile Glu
                    85                      90                      95

Ile Ser Arg Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser Val
                    100                     105                     110

Ile Ile Leu Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu
                    115                     120                     125

Gln Gln Met His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala Leu
                    130                     135                     140

Asp Asp Met Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp Ile
                    145                     150                     155                     160

Ser Asp Ser Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr Thr
                    165                     170                     175

Lys Ala Ile Ser Arg Trp Ser Ser Leu Ala Cys Asn Ile Ala Leu Asp
                    180                     185                     190

Ala Val Lys Met Val Gln Phe Glu Glu Asn Gly Arg Lys Glu Ile Asp
                    195                     200                     205

Ile Lys Lys Tyr Ala Arg Val Glu Lys Ile Pro Gly Gly Ile Ile Glu
                    210                     215                     220

```

Asp	Ser	Cys	Val	Leu	Arg	Gly	Val	Met	Ile	Asn	Lys	Asp	Val	Thr	His
225										235					240
Pro	Arg	Met	Arg	Arg	Tyr	Ile	Lys	Asn	Pro	Arg	Ile	Val	Leu	Leu	Asp
				245					250						255
Ser	Ser	Leu	Glu	Tyr	Lys	Lys	Gly	Glu	Ser	Gln	Thr	Asp	Ile	Glu	Ile
			260					265					270		
Thr	Arg	Glu	Glu	Asp	Phe	Thr	Arg	Ile	Leu	Gln	Met	Glu	Glu	Glu	Tyr
			275				280					285			
Ile	Gln	Gln	Leu	Cys	Glu	Asp	Ile	Ile	Gln	Leu	Lys	Pro	Asp	Val	Val
	290					295					300				
Ile	Thr	Glu	Lys	Gly	Ile	Ser	Asp	Leu	Ala	Gln	His	Tyr	Leu	Met	Arg
305					310					315					320
Ala	Asn	Ile	Thr	Ala	Ile	Arg	Arg	Val	Arg	Lys	Thr	Asp	Asn	Asn	Arg
				325					330					335	
Ile	Ala	Arg	Ala	Cys	Gly	Ala	Arg	Ile	Val	Ser	Arg	Pro	Glu	Glu	Leu
			340					345					350		
Arg	Glu	Asp	Asp	Val	Gly	Thr	Gly	Ala	Gly	Leu	Leu	Glu	Ile	Lys	Lys
		355					360					365			
Ile	Gly	Asp	Glu	Tyr	Phe	Thr	Phe	Ile	Thr	Asp	Cys	Lys	Asp	Pro	Lys
	370					375					380				
Ala	Cys	Thr	Ile	Leu	Leu	Arg	Gly	Ala	Ser	Lys	Glu	Ile	Leu	Ser	Glu
385					390					395					400
Val	Glu	Arg	Asn	Leu	Gln	Asp	Ala	Met	Gln	Val	Cys	Arg	Asn	Val	Leu
			405						410					415	
Leu	Asp	Pro	Gln	Leu	Val	Pro	Gly	Gly	Gly	Ala	Ser	Glu	Met	Ala	Val
			420					425					430		
Ala	His	Ala	Leu	Thr	Glu	Lys	Ser	Lys	Ala	Met	Thr	Gly	Val	Glu	Gln
		435					440					445			
Trp	Pro	Tyr	Arg	Ala	Val	Ala	Gln	Ala	Leu	Glu	Val	Ile	Pro	Arg	Thr
	450					455					460				
Leu	Ile	Gln	Asn	Cys	Gly	Ala	Ser	Thr	Ile	Arg	Leu	Leu	Thr	Ser	Leu
465					470					475					480
Arg	Ala	Lys	His	Thr	Gln	Glu	Asn	Cys	Glu	Thr	Trp	Gly	Val	Asn	Gly
			485						490					495	
Glu	Thr	Gly	Thr	Leu	Val	Asp	Met	Lys	Glu	Leu	Gly	Ile	Trp	Glu	Pro
			500					505					510		
Leu	Ala	Val	Lys	Leu	Gln	Thr	Tyr	Lys	Thr	Ala	Val	Glu	Thr	Ala	Val
	515						520					525			

Leu Leu Leu Arg Ile Asp Asp Ile Val Ser Gly His Lys Lys Lys Gly  
 530 535 540

Asp Asp Gln Ser Arg Gln Gly Gly Ala Pro Asp Ala Gly Gln Glu  
 545 550 555

<210> 397

<211> 307

<212> PRT

<213> Homo sapiens

<400> 397

Arg Glu Ser Arg Ser Arg Ala Met Glu Glu Glu Ala Ser Ser Pro Gly  
 5 10 15

Leu Gly Cys Ser Lys Pro His Leu Glu Lys Leu Thr Leu Gly Ile Thr  
 20 25 30

Arg Ile Leu Glu Ser Ser Pro Gly Val Thr Glu Val Thr Ile Ile Glu  
 35 40 45

Lys Pro Pro Ala Glu Arg His Met Ile Ser Ser Trp Glu Gln Lys Asn  
 50 55 60

Asn Cys Val Met Pro Glu Asp Val Lys Asn Phe Tyr Leu Met Thr Asn  
 65 70 75 80

Gly Phe His Met Thr Trp Ser Val Lys Leu Asp Glu His Ile Ile Pro  
 85 90 95

Leu Gly Ser Met Ala Ile Asn Ser Ile Ser Lys Leu Thr Gln Leu Thr  
 100 105 110

Gln Ser Ser Met Tyr Ser Leu Pro Asn Ala Pro Thr Leu Ala Asp Leu  
 115 120 125

Glu Asp Asp Thr His Glu Ala Ser Asp Asp Gln Pro Glu Lys Pro His  
 130 135 140

Phe Asp Ser Arg Ser Val Ile Phe Glu Leu Asp Ser Cys Asn Gly Ser  
 145 150 155 160

Gly Lys Val Cys Leu Val Tyr Lys Ser Gly Lys Pro Ala Leu Ala Glu  
 165 170 175

Asp Thr Glu Ile Trp Phe Leu Asp Arg Ala Leu Tyr Trp His Phe Leu  
 180 185 190

Thr Asp Thr Phe Thr Ala Tyr Tyr Arg Leu Leu Ile Thr His Leu Gly  
 195 200 205

Leu Pro Gln Trp Gln Tyr Ala Phe Thr Ser Tyr Gly Ile Ser Pro Gln  
 210 215 220

Ala Lys Gln Trp Phe Ser Met Tyr Lys Pro Ile Thr Tyr Asn Thr Asn  
 225 230 235 240

<400> 398						
agaattcggc	acgaggattg	cctatctcca	gtgcaacaac	catcaagtgt	gctgaaagtc	60
ttcagccggt	tgtctgcagca	gtggaagaaa	gggctacagg	tccagtcctt	ataagcaccg	120
ccgactttga	ggggcctatg	cccagtgctc	cccagaagc	tgaaagtcct	cttgctcaa	180
ccagcaagga	ggagaaggat	gaatgtgtct	tcatttccac	tagcatagca	gaagaatgtg	240
aggcttctgt	ttccggtgta	gttggtgaaa	gtgaaaatga	gcgagctggc	acagtcatgg	300
aagaaaaaga	cgggagtggc	atcatctcta	cgagctcgg	ggaagactgt	gagggcccag	360
tgtccagtc	tgtccctcaa	gaggaaggcg	accctcagt	cacaccagcg	gaagag	416

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<220>
<221> misc_feature
<222> 91, 107, 145, 155, 207, 215, 228, 232, 233, 234, 244
<223> n = A,T,C or G
```

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<210> 400
<211> 410
<212> DNA
<213> Homo sapiens
```

<400> 400

ggcacgagggg	gagagcggac	cccagagagc	cctgagcagc	cccaccgccg	ccgccggcct	60
agttaccatc	acaccccg	aggagccgca	gctgccgcag	ccggccccag	tcaccatcac	120
cgcaaccatg	agcagcgagg	ccgagaccca	gcagccgccc	gccgcccccc	cccgccgccc	180

```

ccgccctcag cgccgccgac accaagcccg gcactacggg cagcggcgca gggagcgggtg 240
gccccggggc cctcacatcg gcggcgccctg ccggcgggga caagaaggtc atcgcaacga 300
agggttttggg aacagtaaaa tggttcaatg taaggaacgg atatggtttc atcaacagga 360
atgacaccaa ggaagatgta tttgtacacc agactgccat aaagaagaat 410

```

<210> 401

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3

<223> n = A,T,C or G

<400> 401

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ggnacgagga atcatggcgg ctgcgctggt cgtgctgctg ggattcgcgc tgctgggcac 60
ccacggagcc tccggggctg ccggcacagt cttcactacc gtagaagacc ttggctccaa 120
gatactcttc acctgctcct tgaatgacag cgccacagag gtcacagggc accgctggct 180
gaaggggggc gtggtgctga aggaggacgc gctgcccggc cagaaaacgg agttcaaggc 240
ggactccgac gaccagtggg gagagtactc ctgcgtcttc ctccccgagc ccatgggcac 300
ggccaacatc cagctccacg ggcctcccag agtgaaggcc gtgaagtcgt cagaacacat 360
caacgagggg gagacggcca tgctggtctg caagtcagag tccgtgccac ctgtcactga 420
ctgggcctgg tac 433

```

<210> 402

<211> 434

<212> DNA

<213> Homo sapiens

<400> 402

```

ggcacgaggg tcggactgag caggactttc cttatcccag ttgattgtgc agaatacact 60
gcctgtcgct tgtcttctat tcaccatggc ttcttctgat atccagggtga aagaactgga 120
gaagcgtgcc tcaggccagg cttttgagct gattctcagc cctcgggtcaa aaggatctgt 180
tccagaattc cccctttccc ctccaaagaa gaaggatctt tccctggagg aaattcagaa 240
gaaattagaa gctgcagaag aaagacgcaa gtcccatgaa gctgaggtct tgaagcagct 300
ggctgagaaa cgagagcacg agaaagaagt gcttcagaag gcaatagaag agaacaacaa 360
cttcagtaaa atggcagaag agaaactgac ccacaaaatg gaagctaata aagagaaccg 420
agaggcacaa atgg 434

```

<210> 403

<211> 435

<212> DNA

<213> Homo sapiens

<400> 403

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ggcacgagga actgctgttg ccattcaaac cattgaggag catcctgcat cttttgactg 60
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agtgaagcag aagaaaaata ctgacaaaga ccatccgaat actggaaaca aaaaaggatc 180
ccattcaaat tcaagaaaaa atattgataa gactgctgtg actagtggaa atcatgtatg 240
tccttgtaaa gaaagcgaaa cgtttgtaaa gtttgccaat ccatcacagc ttcagtgcag 300
tgataatgta aaaattgttt tagacaagaa tcttaaagat tgcactgagc ttgtcttaaa 360
gcaacttcag gaaatgaaac ctaccgtcag tctgaaaaaa cttgaagtac attcaaata 420
tccagatatg tctgt 435

```

<210> 404

<211> 416

<212> DNA

<213> Homo sapiens

<400> 404

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aaagaattcg gcacgaggcg ccgctccgcc acgaccaccg ccgcctcctg ccctgcagcc 60
accgccaccg cctgtgtcgc cgccgcctcg ggaccggctg tatgattagg ccacaatctt 120
caatgagtaa acatattcct caattctgtg gtgttcttgg tcacacattt atggagtttc 180
tgaagggcag tggagattac tgccaggcac agcacgacct ctatgcagac aagtgaactg 240
tagaaactga ttactgctcc accaagaagc ccccataaga gtggttatoc tggacacaga 300
agtgttgaat tgaaatccac agagcatttt acaagagtgc tgacctggat ggggtaaacc 360
tcagtgcact tcttttctgt tggcctcagt attactggat tgaagaattg ctgctt 416
```

<210> 405

<211> 435

<212> DNA

<213> Homo sapiens

<400> 405

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ggcacgaggg ctgccggagg gtctgtttta agggcccgcg cgttgccgcc ccctcggccc 60
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gccgtctact tcaaggagca gtttctggac ggagacgggt ggacttcccg ctggatcgaa 180
tccaaacaca agtcagattt tggcaaattc gttctcagtt ccggcaagtt ctacggtgac 240
gaggagaaag ataaagggtt gcagacaagc caggatgcac gcttttatgc tctgtcggcc 300
agtttcgagc ctttcagcaa caaaggccag acgctgggtg tgcagttcac ggtgaaacat 360
gagcagaaca tcgactgtgg gggcggctat gtgaagctgt ttccataatag tttggaccag 420
acagacatgc acgga 435
```

<210> 406

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 402, 414

<223> n = A,T,C or G

<400> 406

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gtataggcga tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 240
cctaagaaca gctaaaagag cacaccctgc tatgtagcaa aatagtggga agatttatag 300
gtagaggcga caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt 360
tcaactttta atttgccccac agaaccctct aaatccctt gnaaatttaa ctgntagtcc 420
aaag 424
```

<210> 407

<211> 423

<212> DNA

<213> Homo sapiens

<400> 407

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gtcctaccg gcgcacgtgg tgcgcgcgt gctgcctccc gctgcctctg aaccagtg 60
ctgcagccat ggctcccggc cagctcgcct tatttagtgt ctctgacaaa accggccttg 120
tggaatttgc aagaaacctg accgctcttg gtttgaatct ggctgcctcc ggagggactg 180
caaaagctct cagggatgct ggtctggcag tcagagatgt ctctgagttg acgggatttc 240
ctgaaatggt ggggggacgt gtgaaaactt tgcctcctgc agtccatgct ggaatcctag 300
ctcgtaatat tccagaagat aatgctgaca tggccagact tgatttcaat cttataagag 360
```



ttgttgccctg caatctctat ccctttgtaa agacagtggc ttctccaggt gtaagtgttg 420  
agg 423

<210> 408

<211> 424

<212> DNA

<213> Homo sapiens

<400> 408

gaaaaaaaaat agcttactga attctataag atgtgtggga atctcaccta tcaaaaaatag 60  
gtaaaaagag cctccaaacc tgctttgatt ttattcacct attcttttag gccaggaact 120  
aatttacctc tcactatcct gttccctctt gctatcttgt ggagtctcta aagacaaaagg 180  
tataaagagc ttttggtagg tgaattaata atcaactaga tggcatttcc aaatgggatt 240  
gcacatactg tggggcaagt cccaagtga cttcaaagtg agacgtttat ttgagtaatc 300  
cttcagatt aacaataatc ataatagcag ttaccacttc ctgagtactt tctatatgcc 360  
atgtattgag cttgctcact tctttatgtg gattcttatt taatcttaat accaagatga 420  
ggtg 424

<210> 409

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 279, 304, 315, 319, 343, 352, 355, 356, 361, 381

<223> n = A,T,C or G

<400> 409

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cgcctcctaa tccctagcca ctatgctga gtgcatctcc atccacgttg gccaggctgg 120  
tgtccagatt ggcaatgcct gctgggagct ctactgcctg gaacacggca tccagcccga 180  
tggccagatg ccaagtga caagaccattg gggaggagat gactccttca acaccttctt 240  
cagtgaagcg ggcgctggca agcacgtgcc ccgggctgng tttgtagact tggaaaccac 300  
agtnattgat gaagntcgna ctggcaccta cccgcaggtc ttncaccctg ancanntcat 360  
nacaggcaag gaagatgctg ncaaataact atgcccga 398

<210> 410

<211> 423

<212> DNA

<213> Homo sapiens

<400> 410

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gtagcgccag tagcacggag gaaaaggcag tgacgaccgt gctctggggc tgcgagctca 180  
gtcaggagag gcggacttgg accttcagac cccagctgga ggggaagcag agctgcaggc 240  
tgttgcttca tacgatttgc ttgggggaga aagccaaaga ggagatgcat cgcgtggaga 300  
tcctgcccc agcaaaccag gaggacaaga agatgcagcc ggtcaccatt gcctcactcc 360  
aggcctcagt cctccccatg gtctccatgg taggagtgca gctttctccc ccagttactt 420  
tcc 423

<210> 411

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 370  
 <223> n = A,T,C or G

<400> 411  
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 ggaccggccg aacgcagagg ttgattcttc accacactga aaccattagg aaaaatcctt 120  
 gtgggtaaca gcagaggctt cagagtgtaa cctgtactcg ggcctagaaa ttattttaaaa 180  
 tggcgactga tacgtctcaa ggtgaactcg tccatcctaa ggcaactcca cttatagtag 240  
 gagctcagct gatccacgcg gacaagttag gtgagaaggt agaagatagc accatgccga 300  
 ttcgtcgaac tgtgaattct acccgggaaa ctccctccaa aagcaagctt gctgaagggg 360  
 aggaagaaan gccagaacca gacataagtt cagaggaatc tgtctccact gtagaagaac 420  
 aaga 424

<210> 412  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 412  
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 ctacggccgc cccctcccgc atgtggaggg tatgacctcc ctcaagggtg acaacctgac 120  
 ctaccgcacc tcgcccagaca cgctgagggc cgtcttcgag aagtacgggc gcgtcggcga 180  
 cgtgtacatc ccgcgggatc gctacaccaa ggagtcccgc ggcttcgcct tcgttcgctt 240  
 tcacgacaag cgcgacgctg aggacgctat ggatgccatg gacggggccg tgctggacgg 300  
 ccgcgagctg cgggtgcaaa tggcgcgcta cggccgcccc ccggactcac accacagccg 360  
 ccggggaccg ccaccccgca ggtacggggg cggtggttac ggacgccgga gccgcagccc 420  
 taggcggcgt 430

<210> 413  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<400> 413  
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 gcggcccgcg gcaatccgtg gaggaacgcg ccgccgagcc accatcatgc ctgggcactt 120  
 acaggaaggc ttcgggtgcg tggtcaccaa ccgattcgac cagttatttg acgacgaatc 180  
 ggaccccttc gagtgctga aggcagcaga gaacaagaaa aaagaagccg gcggggggcg 240  
 cgttgggggc cttggggcca agagcgcagc tcaggccgcg gccagacca actccaacgc 300  
 ggaggcaaaa cagctgcgca aggagtccca gaaagaccgc aagaacccgc tgccccccag 360  
 cgttggcgtg gttgacaaga aagaggagac gcagccgccc gtggcgctta agaaagaagg 420  
 aataagacg 429

<210> 414  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<400> 414  
 ggcacgagga cgggcccggc tgccggcccc cgctctgccc tgcataataa aatggctaata 60  
 caggtgaatg gtaatgcggt acagttaaaa gaagaggaag aaccaatgga tacttccagt 120  
 gtaactcaca cagaacacta caagacactg atagaggcag gcctcccaca gaagggtggc 180  
 gaaagacttg atgaaatatt tcagacagga ttggtagctt atgtcgatct tgatgaaaga 240  
 gcaattgatg ctctcaggga atttaatgaa gaaggagctc tgtctgtact acagcagttc 300  
 aaggaaagtg acttatcaca tgttcagaac aaaagtgcac ttttatgtgg agttatgaag 360  
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 gaagcgaag 429

<210> 415  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 380, 394  
 <223> n = A,T,C or G

<400> 415  
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 cgctctcgcc gaggaacaag tcggtcagga agcccgcgcg caacagccat ggcttttaag 120  
 gataccggaa aaacacccgt ggagccggag gtggcaattc accgaattcg aatcacccta 180  
 acaagccgca acgtaaaatc cttggaaaag gtgtgtgctg acttgataag aggcgcacaaa 240  
 gaaaagaatc tcaaagtact ttgagaatca ctacaagaaa aactccttgt ggtgaagggt 300  
 ctaagacgtg ggatcgtttc cagatgagaa ttcacaagcg actcattgac ttgcacagtc 360  
 cttctgagat tgtaagcan attacttcca tcantatt 398

<210> 416  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 180, 202, 206, 214, 224, 235, 240, 241, 245, 247, 250, 251,  
 252, 257, 267  
 <223> n = A,T,C or G

<400> 416  
 gccgaggcag gaagctgtga gtgcgcggtt gcggggtcgc attgtggcta cggctttgcg 60  
 tccccggcgg gcagccccag gctggtcccc gcctccgctc tccccaccgg cggggaaagc 120  
 agctgggtgtg ggaggaaagg ctccatcccc cgccccctct ctcccgtgtg tggtggcan 180  
 gatcttttgg cagtcctgtg gnctcnctcc ccgnccggat cctnctgacc ctganattcn 240  
 nggtntnacn nnccgtncac gccttgntt 269

<210> 417  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 417  
 ggccgggaga accgttcgcg gaggaaggc gaactagtgt tgggatggcc accaactggg 60  
 ggagcctctt gcaggataaa cagcagctag aggagctggc acggcaggcc gtggaccggg 120  
 ccctggctga gggagtattg ctgaggacct cacaggagcc cacttcctcg gaggtggtga 180  
 gctatgcccc attcacgctc ttcccctcag tgggtccccag tgccctgctg gagcaagcct 240  
 atgctgtgca gatggacttc aacctgctag tggatgctgt cagccagaac gctgccttc 300  
 tggagcaaac tctttccagc accatcaaac aggatgactt taccgctcgt ctctttgaca 360  
 tccacaagca agtcctaaaa gagggcattg cccagactgt gttcctgg 408

<210> 418  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 418

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gctgtcctcg cgcttccgcc ggggtggacat cgacgaattt gacgagaaca aatttgtgga 180
cgagcaggag gaggcggcgg cggcggcggc ggagccaggc ccggacccga gcgaggtgga 240
cgggctcctg cggcaagggg acatgcttcg ggcattccat gcagccttgc ggaactctcc 300
cgtcaacacc aagaatcaag ctgtgaagga gcgagcccag ggcgtggtgc tgaaagtgtc 360
cacaaacttc aagagcagtg agattgagca ggctgtgcag tc 402

```

&lt;210&gt; 419

&lt;211&gt; 406

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 419

```

gccccgggcta gcggcctggg ttgggctttg tagctgctcc gcaggcccag cccggggccgc 60
gctcgcagag tcctaggcgg tgcgcgccct cctgcctcct ccctcctcgg cggtcgcggc 120
ccgccggcct ccgcggtgcc tgccttcgct ctcaggttga ggagctcaag cttgggaaaa 180
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attcaaagaa atccaatgat ccaaacaaaa gggcaaaagt aaaaactttt aaaggggtgc 360
aagaacattg aaatgggaat tacccaacca aaaaaggga cccaac 406

```

&lt;210&gt; 420

&lt;211&gt; 371

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

```

cagccatcgt ggtgtgttct tgactccgct gctcgccatg tcttctcaca agactttcag 60
gattaagcga ttcctggcca agaaacaaaa gcaaaatcgt cccattcccc agtggattcg 120
gatgaaaact ggaaataaaa tcaggtacaa ctccaaaagg agacattgga gaagaaccaa 180
gctgggtcta taaggaattg cacatgagat ggcacacata tttatgctgt ctgaagggtca 240
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tcctctctga atctgttatg aacacgttgg ttggctggat tcagtaataa atatgtaagg 360
cctttctttt t 371

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&lt;210&gt; 421

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

```

Met Ser Ser His Lys Thr Phe Arg Ile Lys Arg Phe Leu Ala Lys Lys
                5                10                15

```

```

Gln Lys Gln Asn Arg Pro Ile Pro Gln Trp Ile Arg Met Lys Thr Gly
                20                25                30

```

```

Asn Lys Ile Arg Tyr Asn Ser Lys Arg Arg His Trp Arg Arg Thr Lys
                35                40                45

```

```

Leu Gly Leu
                50

```

&lt;210&gt; 422

&lt;211&gt; 12308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 422

```

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ccatactgtg tcagtattaa gatcactaaa gtggttctta gcaaagggtg gaggtgtctt 180
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aaaattgaag ccacacagaa acttgaacag gtgaaaaatg agcagcagca gcagcaacaa 2520
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gtgtttgtaa agccacaagc tccacctcct cctccagccc catcccggat tcccatccag 2760
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cctccagaca cacttaggcc tgtgatgaca gatcaatttc ccaaatoctt gggcctatcc 3120
cgggtctcctg tagtttcaga acaactgca aaaggcccta tagcagctgg aaccagtgat 3180

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&lt;210&gt; 423

&lt;211&gt; 596

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 423

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&lt;210&gt; 424

&lt;211&gt; 1549

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 424

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&lt;210&gt; 425

&lt;211&gt; 4019

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 425

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      35                      40                      45

Thr Lys Val Val Leu Ser Lys Gly Trp Arg Cys Leu Glu Cys Thr Val
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Cys Glu Ala Cys Gly Lys Ala Thr Asp Pro Gly Arg Leu Leu Leu Cys
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Arg His Cys Gly Ala Thr Ser Ala Gly Leu Arg Cys Glu Trp Gln Asn

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Gln	Thr	Pro	Pro	Asp	Ile	Gln	Ser	Glu	His	Ser	Arg	Asp	Gly	Glu	Met
		275					280					285			
Asp	Asp	Ser	Arg	Glu	Gly	Glu	Leu	Met	Asp	Cys	Asp	Gly	Lys	Ser	Glu
	290					295					300				
Ser	Ser	Pro	Glu	Arg	Glu	Ala	Val	Asp	Asp	Glu	Thr	Lys	Gly	Val	Glu
305					310					315					320
Gly	Thr	Asp	Gly	Val	Lys	Lys	Arg	Lys	Arg	Lys	Pro	Tyr	Arg	Pro	Gly
				325					330					335	
Ile	Gly	Gly	Phe	Met	Val	Arg	Gln	Arg	Ser	Arg	Thr	Gly	Gln	Gly	Lys
			340					345					350		
Thr	Lys	Arg	Ser	Val	Ile	Arg	Lys	Asp	Ser	Ser	Gly	Ser	Ile	Ser	Glu
		355					360					365			
Gln	Leu	Pro	Cys	Arg	Asp	Asp	Gly	Trp	Ser	Glu	Gln	Leu	Pro	Asp	Thr
		370				375					380				
Leu	Val	Asp	Glu	Ser	Val	Ser	Val	Thr	Glu	Ser	Thr	Glu	Lys	Ile	Lys
385					390					395					400
Lys	Arg	Tyr	Arg	Lys	Arg	Lys	Asn	Lys	Leu	Glu	Glu	Thr	Phe	Pro	Ala
				405					410					415	
Tyr	Leu	Gln	Glu	Ala	Phe	Phe	Gly	Lys	Asp	Leu	Leu	Asp	Thr	Ser	Arg
			420					425					430		

Gln Ser Lys Ile Ser Leu Asp Asn Leu Ser Glu Asp Gly Ala Gln Leu  
 435 440 445  
 Leu Tyr Lys Thr Asn Met Asn Thr Gly Phe Leu Asp Pro Ser Leu Asp  
 450 455 460  
 Pro Leu Leu Ser Ser Ser Ser Ala Pro Thr Lys Ser Gly Thr His Gly  
 465 470 475 480  
 Pro Ala Asp Asp Pro Leu Ala Asp Ile Ser Glu Val Leu Asn Thr Asp  
 485 490 495  
 Asp Asp Ile Leu Gly Ile Ile Ser Asp Asp Leu Ala Lys Ser Val Asp  
 500 505 510  
 His Ser Asp Ile Gly Pro Val Thr Asp Asp Pro Ser Ser Leu Pro Gln  
 515 520 525  
 Pro Asn Val Asn Gln Ser Ser Arg Pro Leu Ser Glu Glu Gln Leu Asp  
 530 535 540  
 Gly Ile Leu Ser Pro Glu Leu Asp Lys Met Val Thr Asp Gly Ala Ile  
 545 550 555 560  
 Leu Gly Lys Leu Tyr Lys Ile Pro Glu Leu Gly Gly Lys Asp Val Glu  
 565 570 575  
 Asp Leu Phe Thr Ala Val Leu Ser Pro Ala Asn Thr Gln Pro Thr Pro  
 580 585 590  
 Leu Pro Gln Pro Pro Pro Pro Thr Gln Leu Leu Pro Ile His Asn Gln  
 595 600 605  
 Asp Ala Phe Ser Arg Met Pro Leu Met Asn Gly Leu Ile Gly Ser Ser  
 610 615 620  
 Pro His Leu Pro His Asn Ser Leu Pro Pro Gly Ser Gly Leu Gly Thr  
 625 630 635 640  
 Phe Ser Ala Ile Ala Gln Ser Ser Tyr Pro Asp Ala Arg Asp Lys Asn  
 645 650 655  
 Ser Ala Phe Asn Pro Met Ala Ser Asp Pro Asn Asn Ser Trp Thr Ser  
 660 665 670  
 Ser Ala Pro Thr Val Glu Gly Glu Asn Asp Thr Met Ser Asn Ala Gln  
 675 680 685  
 Arg Ser Thr Leu Lys Trp Glu Lys Glu Glu Ala Leu Gly Glu Met Ala  
 690 695 700  
 Thr Val Ala Pro Val Leu Tyr Thr Asn Ile Asn Phe Pro Asn Leu Lys  
 705 710 715 720  
 Glu Glu Phe Pro Asp Trp Thr Thr Arg Val Lys Gln Ile Ala Lys Leu  
 725 730 735

Trp Arg Lys Ala Ser Ser Gln Glu Arg Ala Pro Tyr Val Gln Lys Ala  
 740 745 750  
 Arg Asp Asn Arg Ala Ala Leu Arg Ile Asn Lys Val Gln Met Ser Asn  
 755 760 765  
 Asp Ser Met Lys Arg Gln Gln Gln Gln Asp Ser Ile Asp Pro Ser Ser  
 770 775 780  
 Arg Ile Asp Ser Glu Leu Phe Lys Asp Pro Leu Lys Gln Arg Glu Ser  
 785 790 795 800  
 Glu His Glu Gln Glu Trp Lys Phe Arg Gln Gln Met Arg Gln Lys Ser  
 805 810 815  
 Lys Gln Gln Ala Lys Ile Glu Ala Thr Gln Lys Leu Glu Gln Val Lys  
 820 825 830  
 Asn Glu Gln Gln Gln Gln Gln Gln Gln Gln Phe Gly Ser Gln His Leu  
 835 840 845  
 Leu Val Gln Ser Gly Ser Asp Thr Pro Ser Ser Gly Ile Gln Ser Pro  
 850 855 860  
 Leu Thr Pro Gln Pro Gly Asn Gly Asn Met Ser Pro Ala Gln Ser Phe  
 865 870 875 880  
 His Lys Glu Leu Phe Thr Lys Gln Pro Pro Ser Thr Pro Thr Ser Thr  
 885 890 895  
 Ser Ser Asp Asp Val Phe Val Lys Pro Gln Ala Pro Pro Pro Pro Pro  
 900 905 910  
 Ala Pro Ser Arg Ile Pro Ile Gln Asp Ser Leu Ser Gln Ala Gln Thr  
 915 920 925  
 Ser Gln Pro Pro Ser Pro Gln Val Phe Ser Pro Gly Ser Ser Asn Ser  
 930 935 940  
 Arg Pro Pro Ser Pro Met Asp Pro Tyr Ala Lys Met Val Gly Thr Pro  
 945 950 955 960  
 Arg Pro Pro Pro Val Gly His Ser Phe Ser Arg Arg Asn Ser Ala Ala  
 965 970 975  
 Pro Val Glu Asn Cys Thr Pro Leu Ser Ser Val Ser Arg Pro Leu Gln  
 980 985 990  
 Met Asn Glu Thr Thr Ala Asn Arg Pro Ser Pro Val Arg Asp Leu Cys  
 995 1000 1005  
 Ser Ser Ser Thr Thr Asn Asn Asp Pro Tyr Ala Lys Pro Pro Asp Thr  
 1010 1015 1020  
 Pro Arg Pro Val Met Thr Asp Gln Phe Pro Lys Ser Leu Gly Leu Ser  
 1025 1030 1035 1040  
 Arg Ser Pro Val Val Ser Glu Gln Thr Ala Lys Gly Pro Ile Ala Ala

	1045		1050		1055
Gly Thr Ser Asp His Phe Thr Lys Pro Ser Pro Arg Ala Asp Val Phe					
	1060		1065		1070
Gln Arg Gln Arg Ile Pro Asp Ser Tyr Ala Arg Pro Leu Leu Thr Pro					
	1075		1080		1085
Ala Pro Leu Asp Ser Gly Pro Gly Pro Phe Lys Thr Pro Met Gln Pro					
	1090		1095		1100
Pro Pro Ser Ser Gln Asp Pro Tyr Gly Ser Val Ser Gln Ala Ser Arg					
	1105		1110		1115
Arg Leu Ser Val Asp Pro Tyr Glu Arg Pro Ala Leu Thr Pro Arg Pro					
	1125		1130		1135
Ile Asp Asn Phe Ser His Asn Gln Ser Asn Asp Pro Tyr Ser Gln Pro					
	1140		1145		1150
Pro Leu Thr Pro His Pro Ala Val Asn Glu Ser Phe Ala His Pro Ser					
	1155		1160		1165
Arg Ala Phe Ser Gln Pro Gly Thr Ile Ser Arg Pro Thr Ser Gln Asp					
	1170		1175		1180
Pro Tyr Ser Gln Pro Pro Gly Thr Pro Arg Pro Val Val Asp Ser Tyr					
	1185		1190		1195
Ser Gln Ser Ser Gly Thr Ala Arg Ser Asn Thr Asp Pro Tyr Ser Gln					
	1205		1210		1215
Pro Pro Gly Thr Pro Arg Pro Thr Thr Val Asp Pro Tyr Ser Gln Gln					
	1220		1225		1230
Pro Gln Thr Pro Arg Pro Ser Thr Gln Thr Asp Leu Phe Val Thr Pro					
	1235		1240		1245
Val Thr Asn Gln Arg His Ser Asp Pro Tyr Ala His Pro Pro Gly Thr					
	1250		1255		1260
Pro Arg Pro Gly Ile Ser Val Pro Tyr Ser Gln Pro Pro Ala Thr Pro					
	1265		1270		1275
Arg Pro Arg Ile Ser Glu Gly Phe Thr Arg Ser Ser Met Thr Arg Pro					
	1285		1290		1295
Val Leu Met Pro Asn Gln Asp Pro Phe Leu Gln Ala Ala Gln Asn Arg					
	1300		1305		1310
Gly Pro Ala Leu Pro Gly Pro Leu Val Arg Pro Pro Asp Thr Cys Ser					
	1315		1320		1325
Gln Thr Pro Arg Pro Pro Gly Pro Gly Leu Ser Asp Thr Phe Ser Arg					
	1330		1335		1340
Val Ser Pro Ser Ala Ala Arg Asp Pro Tyr Asp Gln Ser Pro Met Thr					
	1345		1350		1355
					1360

Pro Arg Ser Gln Ser Asp Ser Phe Gly Thr Ser Gln Thr Ala His Asp  
 1365 1370 1375  
 Val Ala Asp Gln Pro Arg Pro Gly Ser Glu Gly Ser Phe Cys Ala Ser  
 1380 1385 1390  
 Ser Asn Ser Pro Met His Ser Gln Gly Gln Gln Phe Ser Gly Val Ser  
 1395 1400 1405  
 Gln Leu Pro Gly Pro Val Pro Thr Ser Gly Val Thr Asp Thr Gln Asn  
 1410 1415 1420  
 Thr Val Asn Met Ala Gln Ala Asp Thr Glu Lys Leu Arg Gln Arg Gln  
 1425 1430 1435 1440  
 Lys Leu Arg Glu Ile Ile Leu Gln Gln Gln Gln Lys Lys Ile Ala  
 1445 1450 1455  
 Gly Arg Gln Glu Lys Gly Ser Gln Asp Ser Pro Ala Val Pro His Pro  
 1460 1465 1470  
 Gly Pro Leu Gln His Trp Gln Pro Glu Asn Val Asn Gln Ala Phe Thr  
 1475 1480 1485  
 Arg Pro Pro Pro Pro Tyr Pro Gly Asn Ile Arg Ser Pro Val Ala Pro  
 1490 1495 1500  
 Pro Leu Gly Pro Arg Tyr Ala Val Phe Pro Lys Asp Gln Arg Gly Pro  
 1505 1510 1515 1520  
 Tyr Pro Pro Asp Val Ala Ser Met Gly Met Arg Pro His Gly Phe Arg  
 1525 1530 1535  
 Phe Gly Phe Pro Gly Gly Ser His Gly Thr Met Pro Ser Gln Glu Arg  
 1540 1545 1550  
 Phe Leu Val Pro Pro Gln Gln Ile Gln Gly Ser Gly Val Ser Pro Gln  
 1555 1560 1565  
 Leu Arg Arg Ser Val Ser Val Asp Met Pro Arg Pro Leu Asn Asn Ser  
 1570 1575 1580  
 Gln Met Asn Asn Pro Val Gly Leu Pro Gln His Phe Ser Pro Gln Ser  
 1585 1590 1595 1600  
 Leu Pro Val Gln Gln His Asn Ile Leu Gly Gln Ala Tyr Ile Glu Leu  
 1605 1610 1615  
 Arg His Arg Ala Pro Asp Gly Arg Gln Arg Leu Pro Phe Ser Ala Pro  
 1620 1625 1630  
 Pro Gly Ser Val Val Glu Ala Ser Ser Asn Leu Arg His Gly Asn Phe  
 1635 1640 1645  
 Ile Pro Arg Pro Asp Phe Pro Gly Pro Arg His Thr Asp Pro Met Arg  
 1650 1655 1660

Arg Pro Pro Gln Gly Leu Pro Asn Gln Leu Pro Val His Pro Asp Leu  
 1665 1670 1675 1680  
 Glu Gln Val Pro Pro Ser Gln Gln Glu Gln Gly His Ser Val His Ser  
 1685 1690 1695  
 Ser Ser Met Val Met Arg Thr Leu Asn His Pro Leu Gly Gly Glu Phe  
 1700 1705 1710  
 Ser Glu Ala Pro Leu Ser Thr Ser Val Pro Ser Glu Thr Thr Ser Asp  
 1715 1720 1725  
 Asn Leu Gln Ile Thr Thr Gln Pro Ser Asp Gly Leu Glu Glu Lys Leu  
 1730 1735 1740  
 Asp Ser Asp Asp Pro Ser Val Lys Glu Leu Asp Val Lys Asp Leu Glu  
 1745 1750 1755 1760  
 Gly Val Glu Val Lys Asp Leu Asp Asp Glu Asp Leu Glu Asn Leu Asn  
 1765 1770 1775  
 Leu Asp Thr Glu Asp Gly Lys Val Val Glu Leu Asp Thr Leu Asp Asn  
 1780 1785 1790  
 Leu Glu Thr Asn Asp Pro Asn Leu Asp Asp Leu Leu Arg Ser Gly Glu  
 1795 1800 1805  
 Phe Asp Ile Ile Ala Tyr Thr Asp Pro Glu Leu Asp Met Gly Asp Lys  
 1810 1815 1820  
 Lys Ser Met Phe Asn Glu Glu Leu Asp Leu Pro Ile Asp Asp Lys Leu  
 1825 1830 1835 1840  
 Asp Asn Gln Cys Val Ser Val Glu Pro Lys Lys Lys Glu Gln Glu Asn  
 1845 1850 1855  
 Lys Thr Leu Val Leu Ser Asp Lys His Ser Pro Gln Lys Lys Ser Thr  
 1860 1865 1870  
 Val Thr Asn Glu Val Lys Thr Glu Val Leu Ser Pro Asn Ser Lys Val  
 1875 1880 1885  
 Glu Ser Lys Cys Glu Thr Glu Lys Asn Asp Glu Asn Lys Asp Asn Val  
 1890 1895 1900  
 Asp Thr Pro Cys Ser Gln Ala Ser Ala His Ser Asp Leu Asn Asp Gly  
 1905 1910 1915 1920  
 Glu Lys Thr Ser Leu His Pro Cys Asp Pro Asp Leu Phe Glu Lys Arg  
 1925 1930 1935  
 Thr Asn Arg Glu Thr Ala Gly Pro Ser Ala Asn Val Ile Gln Ala Ser  
 1940 1945 1950  
 Thr Gln Leu Pro Ala Gln Asp Val Ile Asn Ser Cys Gly Ile Thr Gly  
 1955 1960 1965  
 Ser Thr Pro Val Leu Ser Ser Leu Leu Ala Asn Glu Lys Ser Asp Asn

1970	1975	1980
Ser Asp Ile Arg Pro 1985	Ser Gly Ser Pro Pro 1990	Pro Pro Thr Leu Pro Ala 1995 2000
Ser Pro Ser Asn His Val 2005	Ser Ser Leu Pro Pro 2010	Phe Ile Ala Pro Pro 2015
Gly Arg Val Leu Asp Asn Ala Met 2020	Asn Ser Asn Val Thr Val Val Ser 2025 2030	
Arg Val Asn His Val Phe Ser 2035	Gln Gly Val Gln Val Asn Pro Gly Leu 2040 2045	
Ile Pro Gly Gln Ser Thr Val Asn His Ser Leu Gly Thr Gly Lys Pro 2050 2055 2060		
Ala Thr Gln Thr Gly Pro Gln Thr Ser Gln Ser Gly Thr Ser Ser Met 2065 2070 2075 2080		
Ser Gly Pro Gln Gln Leu Met Ile Pro Gln Thr Leu Ala Gln Gln Asn 2085 2090 2095		
Arg Glu Arg Pro Leu Leu Leu Glu Glu Gln Pro Leu Leu Leu Gln Asp 2100 2105 2110		
Leu Leu Asp Gln Glu Arg Gln Glu Gln Gln Gln Arg Gln Met Gln 2115 2120 2125		
Ala Met Ile Arg Gln Arg Ser Glu Pro Phe Phe Pro Asn Ile Asp Phe 2130 2135 2140		
Asp Ala Ile Thr Asp Pro Ile Met Lys Ala Lys Met Val Ala Leu Lys 2145 2150 2155 2160		
Gly Ile Asn Lys Val Met Ala Gln Asn Asn Leu Gly Met Pro Pro Met 2165 2170 2175		
Val Met Ser Arg Phe Pro Phe Met Gly Gln Val Val Thr Gly Thr Gln 2180 2185 2190		
Asn Ser Glu Gly Gln Asn Leu Gly Pro Gln Ala Ile Pro Gln Asp Gly 2195 2200 2205		
Ser Ile Thr His Gln Ile Ser Arg Pro Asn Pro Pro Asn Phe Gly Pro 2210 2215 2220		
Gly Phe Val Asn Asp Ser Gln Arg Lys Gln Tyr Glu Glu Trp Leu Gln 2225 2230 2235 2240		
Glu Thr Gln Gln Leu Leu Gln Met Gln Gln Lys Tyr Leu Glu Glu Gln 2245 2250 2255		
Ile Gly Ala His Arg Lys Ser Lys Lys Ala Leu Ser Ala Lys Gln Arg 2260 2265 2270		
Thr Ala Lys Lys Ala Gly Arg Glu Phe Pro Glu Glu Asp Ala Glu Gln 2275 2280 2285		



Leu Lys His Val Thr Glu Gln Gln Ser Met Val Gln Lys Gln Leu Glu  
 2290 2295 2300  
 Gln Ile Arg Lys Gln Gln Lys Glu His Ala Glu Leu Ile Glu Asp Tyr  
 2305 2310 2315 2320  
 Arg Ile Lys Gln Gln Gln Gln Cys Ala Met Ala Pro Pro Thr Met Met  
 2325 2330 2335  
 Pro Ser Val Gln Pro Gln Pro Pro Leu Ile Pro Gly Ala Thr Pro Pro  
 2340 2345 2350  
 Thr Met Ser Gln Pro Thr Phe Pro Met Val Pro Gln Gln Leu Gln His  
 2355 2360 2365  
 Gln Gln His Thr Thr Val Ile Ser Gly His Thr Ser Pro Val Arg Met  
 2370 2375 2380  
 Pro Ser Leu Pro Gly Trp Gln Pro Asn Ser Ala Pro Ala His Leu Pro  
 2385 2390 2395 2400  
 Leu Asn Pro Pro Arg Ile Gln Pro Pro Ile Ala Gln Leu Pro Ile Lys  
 2405 2410 2415  
 Thr Cys Thr Pro Ala Pro Gly Thr Val Ser Asn Ala Asn Pro Gln Ser  
 2420 2425 2430  
 Gly Pro Pro Pro Arg Val Glu Phe Asp Asp Asn Asn Pro Phe Ser Glu  
 2435 2440 2445  
 Ser Phe Gln Glu Arg Glu Arg Lys Glu Arg Leu Arg Glu Gln Gln Glu  
 2450 2455 2460  
 Arg Gln Arg Ile Gln Leu Met Gln Glu Val Asp Arg Gln Arg Ala Leu  
 2465 2470 2475 2480  
 Gln Gln Arg Met Glu Met Glu Gln His Gly Met Val Gly Ser Glu Ile  
 2485 2490 2495  
 Ser Ser Ser Arg Thr Ser Val Ser Gln Ile Pro Phe Tyr Ser Ser Asp  
 2500 2505 2510  
 Leu Pro Cys Asp Phe Met Gln Pro Leu Gly Pro Leu Gln Gln Ser Pro  
 2515 2520 2525  
 Gln His Gln Gln Gln Met Gly Gln Val Leu Gln Gln Gln Asn Ile Gln  
 2530 2535 2540  
 Gln Gly Ser Ile Asn Ser Pro Ser Thr Gln Thr Phe Met Gln Thr Asn  
 2545 2550 2555 2560  
 Glu Arg Arg Gln Val Gly Pro Pro Ser Phe Val Pro Asp Ser Pro Ser  
 2565 2570 2575  
 Ile Pro Val Gly Ser Pro Asn Phe Ser Ser Val Lys Gln Gly His Gly  
 2580 2585 2590

Asn	Leu	Ser	Gly	Thr	Ser	Phe	Gln	Gln	Ser	Pro	Val	Arg	Pro	Ser	Phe	2595	2600	2605	
Thr	Pro	Ala	Leu	Pro	Ala	Ala	Pro	Pro	Val	Ala	Asn	Ser	Ser	Leu	Pro	2610	2615	2620	
Cys	Gly	Gln	Asp	Ser	Thr	Ile	Thr	His	Gly	His	Ser	Tyr	Pro	Gly	Ser	2625	2630	2635	2640
Thr	Gln	Ser	Leu	Ile	Gln	Leu	Tyr	Ser	Asp	Ile	Ile	Pro	Glu	Glu	Lys	2645	2650	2655	
Gly	Lys	Lys	Lys	Arg	Thr	Arg	Lys	Lys	Lys	Arg	Asp	Asp	Asp	Ala	Glu	2660	2665	2670	
Ser	Thr	Lys	Ala	Pro	Ser	Thr	Pro	His	Ser	Asp	Ile	Thr	Ala	Pro	Pro	2675	2680	2685	
Thr	Pro	Gly	Ile	Ser	Glu	Thr	Thr	Ser	Thr	Pro	Ala	Val	Ser	Thr	Pro	2690	2695	2700	
Ser	Glu	Leu	Pro	Gln	Gln	Ala	Asp	Gln	Glu	Ser	Val	Glu	Pro	Val	Gly	2705	2710	2715	2720
Pro	Ser	Thr	Pro	Asn	Met	Ala	Ala	Gly	Gln	Leu	Cys	Thr	Glu	Leu	Glu	2725	2730	2735	
Asn	Lys	Leu	Pro	Asn	Ser	Asp	Phe	Ser	Gln	Ala	Thr	Pro	Asn	Gln	Gln	2740	2745	2750	
Thr	Tyr	Ala	Asn	Ser	Glu	Val	Asp	Lys	Leu	Ser	Met	Glu	Thr	Pro	Ala	2755	2760	2765	
Lys	Thr	Glu	Glu	Ile	Lys	Leu	Glu	Lys	Ala	Glu	Thr	Glu	Ser	Cys	Pro	2770	2775	2780	
Gly	Gln	Glu	Glu	Pro	Lys	Leu	Glu	Glu	Gln	Asn	Gly	Ser	Lys	Val	Glu	2785	2790	2795	2800
Gly	Asn	Ala	Val	Ala	Cys	Pro	Val	Ser	Ser	Ala	Gln	Ser	Pro	Pro	His	2805	2810	2815	
Ser	Ala	Gly	Ala	Pro	Ala	Ala	Lys	Gly	Asp	Ser	Gly	Asn	Glu	Leu	Leu	2820	2825	2830	
Lys	His	Leu	Leu	Lys	Asn	Lys	Lys	Ser	Ser	Ser	Leu	Leu	Asn	Gln	Lys	2835	2840	2845	
Pro	Glu	Gly	Ser	Ile	Cys	Ser	Glu	Asp	Asp	Cys	Thr	Lys	Asp	Asn	Lys	2850	2855	2860	
Leu	Val	Glu	Lys	Gln	Asn	Pro	Ala	Glu	Gly	Leu	Gln	Thr	Leu	Gly	Ala	2865	2870	2875	2880
Gln	Met	Gln	Gly	Gly	Phe	Gly	Cys	Gly	Asn	Gln	Leu	Pro	Lys	Thr	Asp	2885	2890	2895	
Gly	Gly	Ser	Glu	Thr	Lys	Lys	Gln	Arg	Ser	Lys	Arg	Thr	Gln	Arg	Thr				

2900					2905					2910						
Gly	Glu	Lys	Ala	Ala	Pro	Arg	Ser	Lys	Lys	Arg	Lys	Lys	Asp	Glu	Glu	
2915					2920					2925						
Glu	Lys	Gln	Ala	Met	Tyr	Ser	Ser	Thr	Asp	Thr	Phe	Thr	His	Leu	Lys	
2930					2935					2940						
Gln	Val	Arg	Gln	Leu	Ser	Leu	Leu	Pro	Leu	Met	Glu	Pro	Ile	Ile	Gly	
2945					2950					2955					2960	
Val	Asn	Phe	Ala	His	Phe	Leu	Pro	Tyr	Gly	Ser	Gly	Gln	Phe	Asn	Ser	
2965					2970					2975						
Gly	Asn	Arg	Leu	Leu	Gly	Thr	Phe	Gly	Ser	Ala	Thr	Leu	Glu	Gly	Val	
2980					2985					2990						
Ser	Asp	Tyr	Tyr	Ser	Gln	Leu	Ile	Tyr	Lys	Gln	Asn	Asn	Leu	Ser	Asn	
2995					3000					3005						
Pro	Pro	Thr	Pro	Pro	Ala	Ser	Leu	Pro	Pro	Thr	Pro	Pro	Pro	Met	Ala	
3010					3015					3020						
Cys	Gln	Lys	Met	Ala	Asn	Gly	Phe	Ala	Thr	Thr	Glu	Glu	Leu	Ala	Gly	
3025					3030					3035					3040	
Lys	Ala	Gly	Val	Leu	Val	Ser	His	Glu	Val	Thr	Lys	Thr	Leu	Gly	Pro	
3045					3050					3055						
Lys	Pro	Phe	Gln	Leu	Pro	Phe	Arg	Pro	Gln	Asp	Asp	Leu	Leu	Ala	Arg	
3060					3065					3070						
Ala	Leu	Ala	Gln	Gly	Pro	Lys	Thr	Val	Asp	Val	Pro	Ala	Ser	Leu	Pro	
3075					3080					3085						
Thr	Pro	Pro	His	Asn	Asn	Gln	Glu	Glu	Leu	Arg	Ile	Gln	Asp	His	Cys	
3090					3095					3100						
Gly	Asp	Arg	Asp	Thr	Pro	Asp	Ser	Phe	Val	Pro	Ser	Ser	Ser	Pro	Glu	
3105					3110					3115					3120	
Ser	Val	Val	Gly	Val	Glu	Val	Ser	Arg	Tyr	Pro	Asp	Leu	Ser	Leu	Val	
3125					3130					3135						
Lys	Glu	Glu	Pro	Pro	Glu	Pro	Val	Pro	Ser	Pro	Ile	Ile	Pro	Ile	Leu	
3140					3145					3150						
Pro	Ser	Thr	Ala	Gly	Lys	Ser	Ser	Glu	Ser	Arg	Arg	Asn	Asp	Ile	Lys	
3155					3160					3165						
Thr	Glu	Pro	Gly	Thr	Leu	Tyr	Phe	Ala	Ser	Pro	Phe	Gly	Pro	Ser	Pro	
3170					3175					3180						
Asn	Gly	Pro	Arg	Ser	Gly	Leu	Ile	Ser	Val	Ala	Ile	Thr	Leu	His	Pro	
3185					3190					3195					3200	
Thr	Ala	Ala	Glu	Asn	Ile	Ser	Ser	Val	Val	Ala	Ala	Phe	Ser	Asp	Leu	
3205					3210					3215						

Leu His Val Arg Ile Pro Asn Ser Tyr Glu Val Ser Ser Ala Pro Asp  
 3220 3225 3230  
 Val Pro Ser Met Gly Leu Val Ser Ser His Arg Ile Asn Pro Gly Leu  
 3235 3240 3245  
 Glu Tyr Arg Gln His Leu Leu Leu Arg Gly Pro Pro Pro Gly Ser Ala  
 3250 3255 3260  
 Asn Pro Pro Arg Leu Val Ser Ser Tyr Arg Leu Lys Gln Pro Asn Val  
 3265 3270 3275 3280  
 Pro Phe Pro Pro Thr Ser Asn Gly Leu Ser Gly Tyr Lys Asp Ser Ser  
 3285 3290 3295  
 His Gly Ile Ala Glu Ser Ala Ala Leu Arg Pro Gln Trp Cys Cys His  
 3300 3305 3310  
 Cys Lys Val Val Ile Leu Gly Ser Gly Val Arg Lys Ser Phe Lys Asp  
 3315 3320 3325  
 Leu Thr Leu Leu Asn Lys Asp Ser Arg Glu Ser Thr Lys Arg Val Glu  
 3330 3335 3340  
 Lys Asp Ile Val Phe Cys Ser Asn Asn Cys Phe Ile Leu Tyr Ser Ser  
 3345 3350 3355 3360  
 Thr Ala Gln Ala Lys Asn Ser Glu Asn Lys Glu Ser Ile Pro Ser Leu  
 3365 3370 3375  
 Pro Gln Ser Pro Met Arg Glu Thr Pro Ser Lys Ala Phe His Gln Tyr  
 3380 3385 3390  
 Ser Asn Asn Ile Ser Thr Leu Asp Val His Cys Leu Pro Gln Leu Pro  
 3395 3400 3405  
 Glu Lys Ala Ser Pro Pro Ala Ser Pro Pro Ile Ala Phe Pro Pro Ala  
 3410 3415 3420  
 Phe Glu Ala Ala Gln Val Glu Ala Lys Pro Asp Glu Leu Lys Val Thr  
 3425 3430 3435 3440  
 Val Lys Leu Lys Pro Arg Leu Arg Ala Val His Gly Gly Phe Glu Asp  
 3445 3450 3455  
 Cys Arg Pro Leu Asn Lys Lys Trp Arg Gly Met Lys Trp Lys Lys Trp  
 3460 3465 3470  
 Ser Ile His Ile Val Ile Pro Lys Gly Thr Phe Lys Pro Pro Cys Glu  
 3475 3480 3485  
 Asp Glu Ile Asp Glu Phe Leu Lys Lys Leu Gly Thr Ser Leu Lys Pro  
 3490 3495 3500  
 Asp Pro Val Pro Lys Asp Tyr Arg Lys Cys Cys Phe Cys His Glu Glu  
 3505 3510 3515 3520

Gly Asp Gly Leu Thr Asp Gly Pro Ala Arg Leu Leu Asn Leu Asp Leu  
 3525 3530 3535  
 Asp Leu Trp Val His Leu Asn Cys Ala Leu Trp Ser Thr Glu Val Tyr  
 3540 3545 3550  
 Glu Thr Gln Ala Gly Ala Leu Ile Asn Val Glu Leu Ala Leu Arg Arg  
 3555 3560 3565  
 Gly Leu Gln Met Lys Cys Val Phe Cys His Lys Thr Gly Ala Thr Ser  
 3570 3575 3580  
 Gly Cys His Arg Phe Arg Cys Thr Asn Ile Tyr His Phe Thr Cys Ala  
 3585 3590 3595 3600  
 Ile Lys Ala Gln Cys Met Phe Phe Lys Asp Lys Thr Met Leu Cys Pro  
 3605 3610 3615  
 Met His Lys Pro Lys Gly Ile His Glu Gln Glu Leu Ser Tyr Phe Ala  
 3620 3625 3630  
 Val Phe Arg Arg Val Tyr Val Gln Arg Asp Glu Val Arg Gln Ile Ala  
 3635 3640 3645  
 Ser Ile Val Gln Arg Gly Glu Arg Asp His Thr Phe Arg Val Gly Ser  
 3650 3655 3660  
 Leu Ile Phe His Thr Ile Gly Gln Leu Leu Pro Gln Gln Met Gln Ala  
 3665 3670 3675 3680  
 Phe His Ser Pro Lys Ala Leu Phe Pro Val Gly Tyr Glu Ala Ser Arg  
 3685 3690 3695  
 Leu Tyr Trp Ser Thr Arg Tyr Ala Asn Arg Arg Cys Arg Tyr Leu Cys  
 3700 3705 3710  
 Ser Ile Glu Glu Lys Asp Gly Arg Pro Val Phe Val Ile Arg Ile Val  
 3715 3720 3725  
 Glu Gln Gly His Glu Asp Leu Val Leu Ser Asp Ile Ser Pro Lys Gly  
 3730 3735 3740  
 Val Trp Asp Lys Ile Leu Glu Pro Val Ala Cys Val Arg Lys Lys Ser  
 3745 3750 3755 3760  
 Glu Met Leu Gln Leu Phe Pro Ala Tyr Leu Lys Gly Glu Asp Leu Phe  
 3765 3770 3775  
 Gly Leu Thr Val Ser Ala Val Ala Arg Ile Ala Glu Ser Leu Pro Gly  
 3780 3785 3790  
 Val Glu Ala Cys Glu Asn Tyr Thr Phe Arg Tyr Gly Arg Asn Pro Leu  
 3795 3800 3805  
 Met Glu Leu Pro Leu Ala Val Asn Pro Thr Gly Cys Ala Arg Ser Glu  
 3810 3815 3820  
 Pro Lys Met Ser Ala His Val Lys Arg Pro His Thr Leu Asn Ser Thr

3825                      3830                      3835                      3840  
 Ser Thr Ser Lys Ser Phe Gln Ser Thr Val Thr Gly Glu Leu Asn Ala  
                                  3845                      3850                      3855  
 Pro Tyr Ser Lys Gln Phe Val His Ser Lys Ser Ser Gln Tyr Arg Lys  
                                  3860                      3865                      3870  
 Met Lys Thr Glu Trp Lys Ser Asn Val Tyr Leu Ala Arg Ser Arg Ile  
                                  3875                      3880                      3885  
 Gln Gly Leu Gly Leu Tyr Ala Ala Arg Asp Ile Glu Lys His Thr Met  
                                  3890                      3895                      3900  
 Val Ile Glu Tyr Ile Gly Thr Ile Ile Arg Asn Glu Val Ala Asn Arg  
 3905                                   3910                      3915                      3920  
 Lys Glu Lys Leu Tyr Glu Ser Gln Asn Arg Gly Val Tyr Met Phe Arg  
                                  3925                      3930                      3935  
 Met Asp Asn Asp His Val Ile Asp Ala Thr Leu Thr Gly Gly Pro Ala  
                                  3940                      3945                      3950  
 Arg Tyr Ile Asn His Ser Cys Ala Pro Asn Cys Val Ala Glu Val Val  
                                  3955                      3960                      3965  
 Thr Phe Glu Arg Gly His Lys Ile Ile Ile Ser Ser Ser Arg Arg Ile  
                                  3970                      3975                      3980  
 Gln Lys Gly Glu Glu Leu Cys Tyr Asp Tyr Lys Phe Asp Phe Glu Asp  
 3985                                   3990                      3995                      4000  
 Asp Gln His Lys Ile Pro Cys His Cys Gly Ala Val Asn Cys Arg Lys  
                                  4005                      4010                      4015  
 Trp Met Asn

&lt;210&gt; 426

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 426

Pro Val Lys Asp Arg Glu Ala Phe Gln Arg Leu Asn Phe Leu Tyr Gln  
                                  5                      10                      15

Val Ser Leu Arg Gln Gly Pro His Gly Asp Gly Ala Arg Arg Pro Arg  
                                  20                      25                      30

Val Thr Ala Pro Leu Pro Gln Ala Ala His Cys Val Leu Ala Gln Asp  
                                  35                      40                      45

Pro Glu Asn Gln Ala Leu Ala Arg Phe Tyr Cys Tyr Thr Glu Arg Thr  
                                  50                      55                      60

Ile Ala Lys Arg Leu Val Leu Arg Arg Asp Pro Ser Val Lys Arg Thr

185

65					70						75				80
Leu	Cys	Arg	Gly	Cys	Ser	Ser	Leu	Leu	Val	Pro	Gly	Leu	Thr	Cys	Thr
				85					90					95	
His	Arg	Gln	Arg	Arg	Cys	Arg	Gly	Gln	Arg	Trp	Thr	Val	Gln	Thr	Cys
.			100					105					110		
Leu	Thr	Cys	Gln	Arg	Ser	Gln	Arg	Phe	Leu	Asn	Asp	Pro	Gly	His	Leu
		115					120					125			
Leu	Trp	Gly	Asp	Arg	Pro	Glu	Ala	Gln	Leu	Gly	Ser	Gln	Ala	Asp	Ser
	130					135					140				
Lys	Pro	Leu	Gln	Pro	Leu	Pro	Asn	Thr	Ala	His	Ser	Ile	Ser	Asp	Arg
145					150					155					160
Leu	Pro	Glu	Glu	Lys	Met	Gln	Thr	Gln	Gly	Ser	Ser	Asn	Gln		
				165					170						

&lt;210&gt; 427

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 427

Cys	Glu	Thr	Ala	Lys	Met	Val	Val	Gly	Ala	Phe	Pro	Met	Ala	Lys	Leu
				5				10						15	
Leu	Tyr	Leu	Gly	Ile	Arg	Gln	Val	Ser	Lys	Pro	Leu	Ala	Asn	Arg	Ile
		20						25					30		
Lys	Glu	Ala	Ala	Arg	Arg	Ser	Glu	Phe	Phe	Lys	Thr	Tyr	Ile	Cys	Leu
		35					40					45			
Pro	Pro	Ala	Gln	Leu	Tyr	His	Trp	Val	Glu	Met	Arg	Thr	Lys	Met	Arg
		50				55					60				
Ile	Met	Gly	Phe	Arg	Gly	Thr	Val	Ile	Lys	Pro	Leu	Asn	Glu	Glu	Ala
65	.				70				75						80
Ala	Ala	Glu	Leu	Gly	Ala	Glu	Leu	Leu	Gly	Glu	Ala	Thr	Ile	Phe	Ile
				85					90					95	
Val	Gly	Gly	Gly	Cys	Leu	Val	Leu	Glu	Tyr	Trp	Arg	His	Gln	Ala	Gln
			100					105					110		
Gln	Arg	His	Lys	Glu	Glu	Glu	Gln	Arg	Ala	Ala	Trp	Asn	Ala	Leu	Arg
		115					120					125			
Asp	Glu	Val	Gly	His	Leu	Ala	Leu	Ala	Leu	Glu	Ala	Leu	Gln	Ala	Gln
	130					135					140				
Val	Gln	Ala	Ala	Pro	Pro	Gln	Gly	Ala	Leu	Glu	Glu	Leu	Arg	Thr	Glu
145				150						155					160
Leu	Gln	Glu	Val	Arg	Ala	Gln	Leu	Cys	Asn	Pro	Gly	Arg	Ser	Ala	Ser

165

170

175

His Ala Val Pro Ala Ser Lys Lys  
180

&lt;210&gt; 428

&lt;211&gt; 6476

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

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&lt;210&gt; 429

&lt;211&gt; 732

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 429

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&lt;210&gt; 430

&lt;211&gt; 2843

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 430

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agtaactgg	ggtaggaatc	ttagaaacaa	gaccacttat	actgtctgtc	tgaggcagaa	2580
gataacagca	gcatctcgac	cagcctctgc	cttaaaggaa	atctttatta	atcacgtatg	2640
gttcacagat	aattcttttt	ttaaaaaac	ccaacctcct	agagaagcac	aactgtcaag	2700
agtcttgtac	acacaacttc	agctttgcat	cacgagtctt	gtattccaag	aaaatcaaag	2760
tgttacaatt	tgtttgttta	cactatgata	ctttctaaat	aaactctttt	ttttaaaaaa	2820
aaaaaaaaa	aaaaaaaaa	gag				2843

&lt;210&gt; 431

&lt;211&gt; 640

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 431

ggtaacgtta	tagtattttgt	cagaagttgg	ggtctccgtg	ggcatttgtga	tccgtcccag	60
gcagtggatt	aggaggccaag	aaggagatcc	cttccacggg	gctaggctga	gatggatcct	120
ctcagggccc	aacagctggc	tgcggagctg	gagggtggaga	tgatggccga	tatgtacaac	180
agaatgacca	gtgcctgcc	ccggaagtgt	gtgcctcctc	actacaagga	agcagagctc	240
tccaagggcg	agtctgtgtg	cctggaccga	tgtgtctcta	agtacctgga	catccatgag	300
cggatgggca	aaaagtgtgac	agagttgtct	atgcaggatg	aagagctgat	gaagagggtg	360
cagcagagct	ctgggcctgc	atgagggtccc	tgtcagtata	cacctggggg	tgtacccac	420
cccttcccac	tttaataaac	gtgctccctg	ttgggtgtca	tctgtgaaga	ctgccaggcc	480
taggctctct	gtagagagtc	ttcaagatcc	cggagtggta	gcgctgtctc	ctgggtgaag	540
agtattttgtc	acactggaat	gtgactgtgt	gtgtatgtat	gtgtatatat	atatatatat	600
atatatataa	acaagtttgt	tgacacctac	aaaaaaaaa			640

&lt;210&gt; 432

&lt;211&gt; 2068

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 432

cctcagaagt	ccgtgccagt	gaccggaggc	ggcggcggcg	agcggttcct	tgtgggctag	60
aagaatcctg	caaaaaatgtc	tctctatcca	tctctcgaag	acttgaagg	agacaaagta	120
attcaggctc	aaactgcttt	ttctgcaaac	cctgccaatc	cagcaatttt	gtcagaagct	180
tctgtctcta	tccctcacga	tggaaatctc	tatcccagac	tgtatccaga	gctctctcaa	240
tacatggggc	tgagtttaaa	tgaagaagaa	atacgtgcaa	atgtggccgt	ggtttctggt	300
gcaccacttc	aggggcagtt	ggtagcaaga	ccttccagta	taaactatat	gggtggctcct	360
gtaactggta	atgatgttgg	aattcgtaga	gcagaaatta	agcaagggat	togtgaagtc	420
atcttctgtg	aggatcaaga	tggaaaaatt	ggactcaggc	ttaaataaat	agataatggt	480

```

atatttggtc agctagtgcca ggctaattct ccagcctcat tgggttggtct gagatttggg 540
gaccaagtac ttcagatcaa tggtgaaaac tgtgcaggat ggagctctga taaagcgcac 600
aaggtgctca aacaggcttt tggagagaag attaccatga ccattcgtga caggcccttt 660
gaacggacga ttaccatgca taaggatagc actggacatg ttggttttat ctttaaaaat 720
ggaaaaataa catccatagt gaaagatagc tctgcagcca gaaatggctc tctcacggaa 780
cataacatct gtgaaatcaa tggacagaat gtcattggat tgaaggactc tcaaattgca 840
gacatactgt caacatctgg gactgtagtt actattacaa tcatgcctgc ttttatcttt 900
gaacatatta ttaagcggat ggcaccaagc attatgaaaa gcctaattgga ccacaccatt 960
cctgagggtt aaaattcacg gcaccatgga aatgtagctg aacgtctcca gtttcctttc 1020
ttggcaactt ctgtattatg cacgtgaagc cttcccgag ccagcgagca tatgctgcat 1080
gaggaccttt ctatcttaca ttatggctgg gaatcttact ctttcatctg atacctgtt 1140
cagattttcaa aatagttgta gccttatcct ggttttacag atgtgaaact ttcaagagat 1200
ttactgactt tcctagaata gtttctctac tggaaaacctg atgcttttat aagccattgt 1260
gattaggatg actgttacag gcttagcttt gtgtgaaaac cagtcacctt tctcctagg 1320
aatgagtagt gctgttcata ttactttagt tctatagcat actgcatctt taacatgcta 1380
tcatagtaca tttagaatga ttgcctttga tttttttttt aaattctgtg tgtgtgtgtg 1440
taaaatgcca attaagaaca ctggtttcat tccatgtaag cattaacacag tgtatgtagg 1500
tttcaagaga ttgtgatgat tcttaaattt taactacctt cacttaatat gcttgaactg 1560
tcgccttaac tatgttaagc atctagacta aaagccaaaa tataattatt gctgcctttc 1620
taaaaaccca aaatgtagtt ctctattaac ctgaaatgta cactagccca gaacagttta 1680
atggtactta ctgagctata gcatagctgc ttagttgttt ttgagagttt ttagtcaaca 1740
cataatggaa acttctttct tctaaaagt tccagtgcca cttttaagaa gtgaatcact 1800
atatgtgatg taaaagttat tacaactaac aggataaact tttgactccc cttttgttca 1860
tttgtggatt aagtggatata atacttaatt ttggcatttg actcttaaga ttatgtaacc 1920
tagctacttt gggatggctc tagaatattt ttctgataac ttgttccttt tcctgactcc 1980
tccttgcaaa caaaatgata gttgacactt tatcctgatt tttttctttc ttttggttta 2040
tgtctattct aattaaatat gtataaat 2068

```

&lt;210&gt; 433

&lt;211&gt; 1723

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 433

```

tttctttgtt aagtcgttcc ctctacaaaag gacttcctag tgggtgtgaa aggcagcggg 60
ggccacagag gcggcggaga gatggccttc agcgggttccc aggcctcccta cctgagtcca 120
gctgtcccct tttctgggac tattcaagga ggtctccagg acggacttca gatcactgtc 180
aatgggaccg ttctcagctc cagtggaacc aggtttgctg tgaactttca gactggcttc 240
agtggaaatg acattgcctt ccacttcaac cctcgggttg aagatggagg gtacgtgggtg 300
tgcaacacga ggcagaacgg aagctggggg cccgaggaga ggaagacaca catgcctttc 360
cagaagggga tgccctttga cctctgcttc ctggtgcaga gctcagattt caaggtgatg 420
gtgaacggga tcctcttcgt gcagtaactc caccgcgtgc ccttccaccg tgtggacacc 480
atctccgtca atggctctgt gcagctgtcc tacatcagct tccagaaccc ccgcacagtc 540
cctgttcagc ctgcctttcc acggtgcctg tctcccagcc tgtctgtttc ccacccaggc 600
ccagggggcg cagacaaaaa cctcccggcg tgtggcctgc caacccggct cccattacc 660
agacagtcat ccacacagtg cagagcggcc ctggacagat gttctctact cccgccatcc 720
cacctatgat gtacccccac ccgcctatc ctagccttt catcaccacc attctgggag 780
ggctgtaccc atccaagtcc atcctcctgt caggcactgt cctgcccagt gctcagagg 840
tccacatcaa cctgtgctct gggaaccaca tgccttcca cctgaacccc cgttttgatg 900
agaatgctgt ggtccgcaac acccagatcg acaactcctg ggggtctgag gagcgaagtc 960
tgccccgaaa aatgcccttc gtccgtggcc agagcttctc agtgtggatc ttgtgtgaag 1020
ctcactgcct caaggtggcc gtggatggtc agcacctgtt tgaatactac catcgctga 1080
ggaacctgcc caccatcaac agactggaag tggggggcga catccagctg acccatgtgc 1140
agacataggc ggcttcctgg ccctggggcc gggggctggg gtgtggggca gtcctgggtc 1200
tctcatcatc cccacttccc aggccagcc tttccaaccc tgccctgggat ctgggcttta 1260
atgcagaggc catgtccttg tctggtcctg cttctggcta cagccaccct ggaacggaga 1320
aggcagctga cggggattgc ctctctcagc cgcagcagca cctggggctc cagctgctgg 1380
aatctacca tcccaggagg caggcacagc caggagagg ggaggagtgg gcagtgaaga 1440

```

```

tgaagcccca tgctcagtc cctcccatcc cccacgcagc tccaccccag tcccaagcca 1500
ccagctgtct gctcctggtg ggaggtggcc tcctcagccc ctctctctctg acctttaacc 1560
tcactctcac cttgcaccgt gcaccaaccc ttcaccctc ctggaaagca ggcctgatgg 1620
cttcccactg gcctccacca cctgaccaga gtgttctctt cagaggactg gctcctttcc 1680
cagtgtcctt aaaataaaga aatgaaaatg cttgttgga cat 1723

```

&lt;210&gt; 434

&lt;211&gt; 1702

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

```

Ala Ala Val Leu Gln Ser Cys Thr Ala Phe Ile Glu Arg Tyr Gly Ile
          5                      10                      15

```

```

Val Asp Gly Ile Tyr Arg Leu Ser Gly Val Ala Ser Asn Ile Gln Arg
          20                      25                      30

```

```

Leu Arg His Glu Phe Asp Ser Glu His Val Pro Asp Leu Thr Lys Glu
          35                      40                      45

```

```

Pro Tyr Val Gln Asp Ile His Ser Val Gly Ser Leu Cys Lys Leu Tyr
          50                      55                      60

```

```

Phe Arg Glu Leu Pro Asn Pro Leu Leu Thr Tyr Gln Leu Tyr Glu Lys
          65                      70                      75                      80

```

```

Phe Ser Asp Ala Val Ser Ala Ala Thr Asp Glu Glu Arg Leu Ile Lys
          85                      90                      95

```

```

Ile His Asp Val Ile Gln Gln Leu Pro Pro Pro His Tyr Arg Thr Leu
          100                     105                     110

```

```

Glu Phe Leu Met Arg His Leu Ser Leu Leu Ala Asp Tyr Cys Ser Ile
          115                     120                     125

```

```

Thr Asn Met His Ala Lys Asn Leu Ala Ile Val Trp Ala Pro Asn Leu
          130                     135                     140

```

```

Leu Arg Ser Lys Gln Ile Glu Ser Ala Cys Phe Ser Gly Thr Ala Ala
          145                     150                     155                     160

```

```

Phe Met Glu Val Arg Ile Gln Ser Val Val Val Glu Phe Ile Leu Asn
          165                     170                     175

```

```

His Val Asp Val Leu Phe Ser Gly Arg Ile Ser Met Ala Met Gln Glu
          180                     185                     190

```

```

Gly Ala Ala Ser Leu Ser Arg Pro Lys Ser Leu Leu Val Ser Ser Pro
          195                     200                     205

```

```

Ser Thr Lys Leu Leu Thr Leu Glu Glu Ala Gln Ala Arg Thr Gln Ala
          210                     215                     220

```

```

Gln Val Asn Ser Pro Ile Val Thr Glu Asn Lys Tyr Ile Glu Val Gly
          225                     230                     235                     240

```

```

Glu Gly Pro Ala Ala Leu Gln Gly Lys Phe His Thr Ile Ile Glu Phe

```

245					250					255					
Pro	Leu	Glu	Arg	Lys	Arg	Pro	Gln	Asn	Lys	Met	Lys	Lys	Ser	Pro	Val
			260					265					270		
Gly	Ser	Trp	Arg	Ser	Phe	Phe	Asn	Leu	Gly	Lys	Ser	Ser	Ser	Val	Ser
		275					280					285			
Lys	Arg	Lys	Leu	Gln	Arg	Asn	Glu	Ser	Glu	Pro	Ser	Glu	Met	Lys	Ala
	290					295					300				
Met	Ala	Leu	Lys	Gly	Gly	Arg	Ala	Glu	Gly	Thr	Leu	Arg	Ser	Ala	Lys
305				310					315						320
Ser	Glu	Glu	Ser	Leu	Thr	Ser	Leu	His	Ala	Val	Asp	Gly	Asp	Ser	Lys
				325					330					335	
Leu	Phe	Arg	Pro	Arg	Arg	Pro	Arg	Ser	Ser	Ser	Asp	Ala	Leu	Ser	Ala
			340					345					350		
Ser	Phe	Asn	Gly	Glu	Met	Leu	Gly	Asn	Arg	Cys	Asn	Ser	Tyr	Asp	Asn
		355					360					365			
Leu	Pro	His	Asp	Asn	Glu	Ser	Glu	Glu	Glu	Gly	Gly	Leu	Leu	His	Ile
	370					375					380				
Pro	Ala	Leu	Met	Ser	Pro	His	Ser	Ala	Glu	Asp	Val	Asp	Leu	Ser	Pro
385						390					395				400
Pro	Asp	Ile	Gly	Val	Ala	Ser	Leu	Asp	Phe	Asp	Pro	Met	Ser	Phe	Gln
				405					410					415	
Cys	Ser	Pro	Pro	Lys	Ala	Glu	Ser	Glu	Cys	Leu	Glu	Ser	Gly	Ala	Ser
			420					425					430		
Phe	Leu	Asp	Ser	Pro	Gly	Tyr	Ser	Lys	Asp	Lys	Pro	Ser	Ala	Asn	Lys
		435					440					445			
Lys	Asp	Ala	Glu	Thr	Gly	Ser	Ser	Gln	Cys	Gln	Thr	Pro	Gly	Ser	Thr
	450					455					460				
Ala	Ser	Ser	Glu	Pro	Val	Ser	Pro	Leu	Gln	Glu	Lys	Leu	Ser	Pro	Phe
465						470					475				480
Phe	Thr	Leu	Asp	Leu	Ser	Pro	Thr	Glu	Asp	Lys	Ser	Ser	Lys	Pro	Ser
				485					490					495	
Ser	Phe	Thr	Glu	Lys	Val	Val	Tyr	Ala	Phe	Ser	Pro	Lys	Ile	Gly	Arg
			500					505					510		
Lys	Leu	Ser	Lys	Ser	Pro	Ser	Met	Ser	Ile	Ser	Glu	Pro	Ile	Ser	Val
		515					520					525			
Thr	Leu	Pro	Pro	Arg	Val	Ser	Glu	Val	Ile	Gly	Thr	Val	Ser	Asn	Thr
	530					535					540				
Thr	Ala	Gln	Asn	Ala	Ser	Ser	Ser	Thr	Trp	Asp	Lys	Cys	Val	Glu	Glu
545						550					555				560

Arg	Asp	Ala	Thr	Asn	Arg	Ser	Pro	Thr	Gln	Ile	Val	Lys	Met	Lys	Thr	565	570	575
Asn	Glu	Thr	Val	Ala	Gln	Glu	Ala	Tyr	Glu	Ser	Glu	Val	Gln	Pro	Leu	580	585	590
Asp	Gln	Val	Ala	Ala	Glu	Glu	Val	Glu	Leu	Pro	Gly	Lys	Glu	Asp	Gln	595	600	605
Ser	Val	Ser	Ser	Ser	Gln	Ser	Lys	Ala	Val	Ala	Ser	Gly	Gln	Thr	Gln	610	615	620
Thr	Gly	Ala	Val	Thr	His	Asp	Pro	Pro	Gln	Asp	Ser	Val	Pro	Val	Ser	625	630	635
Ser	Val	Ser	Leu	Ile	Pro	Pro	Pro	Pro	Pro	Pro	Lys	Asn	Val	Ala	Arg	645	650	655
Met	Leu	Ala	Leu	Ala	Leu	Ala	Glu	Ser	Ala	Gln	Gln	Ala	Ser	Thr	Gln	660	665	670
Ser	Leu	Lys	Arg	Pro	Gly	Thr	Ser	Gln	Ala	Gly	Tyr	Thr	Asn	Tyr	Gly	675	680	685
Asp	Ile	Ala	Val	Ala	Thr	Thr	Glu	Asp	Asn	Leu	Ser	Ser	Ser	Tyr	Ser	690	695	700
Ala	Val	Ala	Leu	Asp	Lys	Ala	Tyr	Phe	Gln	Thr	Asp	Arg	Pro	Ala	Glu	705	710	715
Gln	Phe	His	Leu	Gln	Asn	Asn	Ala	Pro	Gly	Asn	Cys	Asp	His	Pro	Leu	725	730	735
Pro	Glu	Thr	Thr	Ala	Thr	Gly	Asp	Pro	Thr	His	Ser	Asn	Thr	Thr	Glu	740	745	750
Ser	Gly	Glu	Gln	His	His	Gln	Val	Asp	Leu	Thr	Gly	Asn	Gln	Pro	His	755	760	765
Gln	Ala	Tyr	Leu	Ser	Gly	Asp	Pro	Glu	Lys	Ala	Arg	Ile	Thr	Ser	Val	770	775	780
Pro	Leu	Asp	Ser	Glu	Lys	Ser	Asp	Asp	His	Val	Ser	Phe	Pro	Glu	Asp	785	790	795
Gln	Ser	Gly	Lys	Asn	Ser	Met	Pro	Thr	Val	Ser	Phe	Leu	Asp	Gln	Asp	805	810	815
Gln	Ser	Pro	Pro	Arg	Phe	Tyr	Ser	Gly	Asp	Gln	Pro	Pro	Ser	Tyr	Leu	820	825	830
Gly	Ala	Ser	Val	Asp	Lys	Leu	His	His	Pro	Leu	Glu	Phe	Ala	Asp	Lys	835	840	845
Ser	Pro	Thr	Pro	Pro	Asn	Leu	Pro	Ser	Asp	Lys	Ile	Tyr	Pro	Pro	Ser	850	855	860

Gly	Ser	Pro	Glu	Glu	Asn	Thr	Ser	Thr	Ala	Thr	Met	Thr	Tyr	Met	Thr	865	870	875	880
Thr	Thr	Pro	Ala	Thr	Ala	Gln	Met	Ser	Thr	Lys	Glu	Ala	Ser	Trp	Asp	885	890	895	
Val	Ala	Glu	Gln	Pro	Thr	Thr	Ala	Asp	Phe	Ala	Ala	Ala	Thr	Leu	Gln	900	905	910	
Arg	Thr	His	Arg	Thr	Asn	Arg	Pro	Leu	Pro	Pro	Pro	Pro	Ser	Gln	Arg	915	920	925	
Ser	Ala	Glu	Gln	Pro	Pro	Val	Val	Gly	Gln	Val	Gln	Ala	Ala	Thr	Asn	930	935	940	
Ile	Gly	Leu	Asn	Asn	Ser	His	Lys	Val	Gln	Gly	Val	Val	Pro	Val	Pro	945	950	955	960
Glu	Arg	Pro	Pro	Glu	Pro	Arg	Ala	Met	Asp	Asp	Pro	Ala	Ser	Ala	Phe	965	970	975	
Ile	Ser	Asp	Ser	Gly	Ala	Ala	Ala	Ala	Gln	Cys	Pro	Met	Ala	Thr	Ala	980	985	990	
Val	Gln	Pro	Gly	Leu	Pro	Glu	Lys	Val	Arg	Asp	Gly	Ala	Arg	Val	Pro	995	1000	1005	
Leu	Leu	His	Leu	Arg	Ala	Glu	Ser	Val	Pro	Ala	His	Pro	Cys	Gly	Phe	1010	1015	1020	
Pro	Ala	Pro	Leu	Pro	Pro	Thr	Arg	Met	Met	Glu	Ser	Lys	Met	Ile	Ala	1025	1030	1035	1040
Ala	Ile	His	Ser	Ser	Ser	Ala	Asp	Ala	Thr	Ser	Ser	Ser	Asn	Tyr	His	1045	1050	1055	
Ser	Phe	Val	Thr	Ala	Ser	Ser	Thr	Ser	Val	Asp	Asp	Ala	Leu	Pro	Leu	1060	1065	1070	
Pro	Leu	Pro	Val	Pro	Gln	Pro	Lys	His	Ala	Ser	Gln	Lys	Thr	Val	Tyr	1075	1080	1085	
Ser	Ser	Phe	Ala	Arg	Pro	Asp	Val	Thr	Thr	Glu	Pro	Phe	Gly	Pro	Asp	1090	1095	1100	
Asn	Cys	Leu	His	Phe	Asn	Met	Thr	Pro	Asn	Cys	Gln	Tyr	Arg	Pro	Gln	1105	1110	1115	1120
Ser	Val	Pro	Pro	His	His	Asn	Lys	Leu	Glu	Gln	His	Gln	Val	Tyr	Gly	1125	1130	1135	
Ala	Arg	Ser	Glu	Pro	Pro	Ala	Ser	Met	Gly	Leu	Arg	Tyr	Asn	Thr	Tyr	1140	1145	1150	
Val	Ala	Pro	Gly	Arg	Asn	Ala	Ser	Gly	His	His	Ser	Lys	Pro	Cys	Ser	1155	1160	1165	
Arg	Val	Glu	Tyr	Val	Ser	Ser	Leu	Ser	Ser	Ser	Val	Arg	Asn	Thr	Cys				



1170	1175	1180
Tyr Pro Glu Asp Ile Pro Pro Tyr Pro Thr Ile Arg Arg Val Gln Ser 1185	1190	1195 1200
Leu His Ala Pro Pro Ser Ser Met Ile Arg Ser Val Pro Ile Ser Arg 1205	1210	1215
Thr Glu Val Pro Pro Asp Asp Glu Pro Ala Tyr Cys Pro Arg Pro Leu 1220	1225	1230
Tyr Gln Tyr Lys Pro Tyr Gln Ser Ser Gln Ala Arg Ser Asp Tyr His 1235	1240	1245
Val Thr Gln Leu Gln Pro Tyr Phe Glu Asn Gly Arg Val His Tyr Arg 1250	1255	1260
Tyr Ser Pro Tyr Ser Ser Ser Ser Ser Ser Tyr Tyr Ser Pro Asp Gly 1265	1270	1275 1280
Ala Leu Cys Asp Val Asp Ala Tyr Gly Thr Val Gln Leu Arg Pro Leu 1285	1290	1295
His Arg Leu Pro Asn Arg Asp Phe Ala Phe Tyr Asn Pro Arg Leu Gln 1300	1305	1310
Gly Lys Ser Leu Tyr Ser Tyr Ala Gly Leu Ala Pro Arg Pro Arg Ala 1315	1320	1325
Asn Val Thr Gly Tyr Phe Ser Pro Asn Asp His Asn Val Val Ser Met 1330	1335	1340
Pro Pro Ala Ala Asp Val Lys His Thr Tyr Thr Ser Trp Asp Leu Glu 1345	1350	1355 1360
Asp Met Glu Lys Tyr Arg Met Gln Ser Ile Arg Arg Glu Ser Arg Ala 1365	1370	1375
Arg Gln Lys Val Lys Gly Pro Val Met Ser Gln Tyr Asp Asn Met Thr 1380	1385	1390
Pro Ala Val Gln Asp Asp Leu Gly Gly Ile Tyr Val Ile His Leu Arg 1395	1400	1405
Ser Lys Ser Asp Pro Gly Lys Thr Gly Leu Leu Ser Val Ala Glu Gly 1410	1415	1420
Lys Glu Ser Arg His Ala Ala Lys Ala Ile Ser Pro Glu Gly Glu Asp 1425	1430	1435 1440
Arg Phe Tyr Arg Arg His Pro Glu Ala Glu Met Asp Arg Ala His His 1445	1450	1455
His Gly Gly His Gly Ser Thr Gln Pro Glu Lys Pro Ser Leu Pro Gln 1460	1465	1470
Lys Gln Ser Ser Leu Arg Ser Arg Lys Leu Pro Asp Met Gly Cys Ser 1475	1480	1485

Leu Pro Glu His Arg Ala His Gln Glu Ala Ser His Arg Gln Phe Cys  
 1490 1495 1500  
 Glu Ser Lys Asn Gly Pro Pro Tyr Pro Gln Gly Ala Gly Gln Leu Asp  
 1505 1510 1515 1520  
 Tyr Gly Ser Lys Gly Ile Pro Asp Thr Ser Glu Pro Val Ser Tyr His  
 1525 1530 1535  
 Asn Ser Gly Val Lys Tyr Ala Ala Ser Gly Gln Glu Ser Leu Arg Leu  
 1540 1545 1550  
 Asn His Lys Glu Val Arg Leu Ser Lys Glu Met Glu Arg Pro Trp Val  
 1555 1560 1565  
 Arg Gln Pro Ser Ala Pro Glu Lys His Ser Arg Asp Cys Tyr Lys Glu  
 1570 1575 1580  
 Glu Glu His Leu Thr Gln Ser Ile Val Pro Pro Pro Lys Pro Glu Arg  
 1585 1590 1595 1600  
 Ser His Ser Leu Lys Leu His His Thr Gln Asn Val Glu Arg Asp Pro  
 1605 1610 1615  
 Ser Val Leu Tyr Gln Tyr Gln Pro His Gly Lys Arg Gln Ser Ser Val  
 1620 1625 1630  
 Thr Val Val Ser Gln Tyr Asp Asn Leu Glu Asp Tyr His Ser Leu Pro  
 1635 1640 1645  
 Gln His Gln Arg Gly Val Phe Gly Gly Gly Gly Met Gly Thr Tyr Val  
 1650 1655 1660  
 Pro Pro Gly Phe Pro His Pro Gln Ser Arg Thr Tyr Ala Thr Ala Leu  
 1665 1670 1675 1680  
 Gly Gln Gly Ala Phe Leu Pro Ala Glu Leu Ser Leu Gln His Pro Glu  
 1685 1690 1695  
 Thr Gln Ile His Ala Glu  
 1700

&lt;210&gt; 435

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 435

Pro Phe Gln Gln Val Gly Arg Cys Asn Pro Ser Pro Gln Thr Arg Pro  
 5 10 15

Gly Pro Ala Ser Lys Val Lys Gln Asp Met Pro Pro Pro Gly Gly Tyr  
 20 25 30

Gly Pro Ile Asp Tyr Lys Arg Asn Leu Pro Arg Arg Gly Leu Ser Gly  
 35 40 45

Tyr Ser Met Leu Ala Ile Gly Ile Gly Thr Leu Ile Tyr Gly His Trp  
 50 55 60  
 Ser Ile Met Lys Trp Asn Arg Glu Arg Arg Arg Leu Gln Ile Glu Asp  
 65 70 75 80  
 Phe Glu Ala Arg Ile Ala Leu Leu Pro Leu Leu Gln Ala Glu Thr Asp  
 85 90 95  
 Arg Arg Thr Leu Gln Met Leu Arg Glu Asn Leu Glu Glu Glu Ala Ile  
 100 105 110  
 Ile Met Lys Asp Val Pro Asp Trp Lys Val Gly Glu Ser Val Phe His  
 115 120 125  
 Thr Thr Arg Trp Val Pro Pro Leu Ile Gly Glu Leu Tyr Gly Leu Arg  
 130 135 140  
 Thr Thr Glu Glu Ala Leu His Ala Ser His Gly Phe Met Trp Tyr Thr  
 145 150 155 160

&lt;210&gt; 436

&lt;211&gt; 396

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 436

Arg Ala Gln Glu Ala Ala Ala Ala Ala Ala Asp Gly Pro Pro Ala Ala  
 5 10 15  
 Asp Gly Glu Asp Gly Gln Asp Pro His Ser Lys His Leu Tyr Thr Ala  
 20 25 30  
 Asp Met Phe Thr His Gly Ile Gln Ser Ala Ala His Phe Val Met Phe  
 35 40 45  
 Phe Ala Pro Trp Cys Gly His Cys Gln Arg Leu Gln Pro Thr Trp Asn  
 50 55 60  
 Asp Leu Gly Asp Lys Tyr Asn Ser Met Glu Asp Ala Lys Val Tyr Val  
 65 70 75 80  
 Ala Lys Val Asp Cys Thr Ala His Ser Asp Val Cys Ser Ala Gln Gly  
 85 90 95  
 Val Arg Gly Tyr Pro Thr Leu Lys Leu Phe Lys Pro Gly Gln Glu Ala  
 100 105 110  
 Val Lys Tyr Gln Gly Pro Arg Asp Phe Gln Thr Leu Glu Asn Trp Met  
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 Leu Gln Thr Leu Asn Glu Glu Pro Val Thr Pro Glu Pro Glu Val Glu  
 130 135 140  
 Pro Pro Ser Ala Pro Glu Leu Lys Gln Gly Leu Tyr Glu Leu Ser Ala  
 145 150 155 160

Ser Asn Phe Glu Leu His Val Ala Gln Gly Asp His Phe Ile Lys Phe  
 165 170 175  
 Phe Ala Pro Trp Cys Gly His Cys Lys Ala Leu Ala Pro Thr Trp Glu  
 180 185 190  
 Gln Leu Ala Leu Gly Leu Glu His Ser Glu Thr Val Lys Ile Gly Lys  
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 Val Asp Cys Thr Gln His Tyr Glu Leu Cys Ser Gly Asn Gln Val Arg  
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 Gly Tyr Pro Thr Leu Leu Trp Phe Arg Asp Gly Lys Lys Val Asp Gln  
 225 230 235 240  
 Tyr Lys Gly Lys Arg Asp Leu Glu Ser Leu Arg Glu Tyr Val Glu Ser  
 245 250 255  
 Gln Leu Gln Arg Thr Glu Thr Gly Ala Thr Glu Thr Val Thr Pro Ser  
 260 265 270  
 Glu Ala Pro Val Leu Ala Ala Glu Pro Glu Ala Asp Lys Gly Thr Val  
 275 280 285  
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 Thr Phe Ile Lys Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Thr Leu  
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 Ser Lys Tyr Ser Val Arg Gly Tyr Pro Thr Leu Leu Leu Phe Arg Gly  
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&lt;210&gt; 437

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 437

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Glu Arg Met Gly Lys Lys Leu Thr Glu Leu Ser Met Gln Asp Glu Glu  
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Leu Met Lys Arg Val Gln Gln Ser Ser Gly Pro Ala  
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 <212> PRT  
 <213> Homo sapiens

<400> 438

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Asn Pro Ala Ile Leu Ser Glu Ala Ser Ala Pro Ile Pro His Asp Gly  
           35                                  40                                  45

Asn Leu Tyr Pro Arg Leu Tyr Pro Glu Leu Ser Gln Tyr Met Gly Leu  
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Ser Leu Asn Glu Glu Glu Ile Arg Ala Asn Val Ala Val Val Ser Gly  
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Ala Pro Leu Gln Gly Gln Leu Val Ala Arg Pro Ser Ser Ile Asn Tyr  
                                   85                                  90                                  95

Met Val Ala Pro Val Thr Gly Asn Asp Val Gly Ile Arg Arg Ala Glu  
                   100                                  105                                  110

Ile Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln Asp Gly  
           115                                  120                                  125

Lys Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe Val Gln  
       130                                  135                                  140

Leu Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg Phe Gly  
       145                                  150                                  155                                  160

Asp Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp Ser Ser  
           165                                  170                                  175

Asp Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys Ile Thr  
           180                                  185                                  190

Met Thr Ile Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys  
       195                                  200                                  205

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 <212> PRT  
 <213> Homo sapiens

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Pro Val Gln Pro Ala Phe Ser Thr Val Pro Phe Ser Gln Pro Val Cys  
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<211> 2239

<212> DNA

<213> Homo sapiens

<400> 440

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&lt;210&gt; 441

&lt;211&gt; 5981

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 441

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&lt;210&gt; 442

&lt;211&gt; 337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 442

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&lt;210&gt; 443

&lt;211&gt; 739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 443

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<400> 444  
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 aaagaaacag atgatgatac tagggaatgg aaacaaaatt ggaaacctgg gttattttggg 180  
 gatttatatt gtactctgca cagttgccct ttttttagg cgtgttccct ggaaaagagg 240  
 gacggatgaa cctggaagta agtaaaagac attctagggtg tgtagcatca aggcagttaa 300  
 tatccaagca tcagctttct ctttatacat ctacactgca tggcctgcac caaataagga 360  
 actgaaccag gggatatgtt ttacctccac agctgcctcc ttccatcana gcacctgat 420  
 gaacttaatg tctagtcaca cgtcattggc atgttttctc cccagcattt aattacaaag 480  
 ctttctttct ttggatagga tcagttctta agagcagccc cggtaactgg aggaatggga 540  
 gccgttttga tganaaaaat gggtttggtg ttcaggatct ccaattataa atgtagtctc 600  
 tcagcaccac attccgtaaa gatgatttcc caagtaacgg tatttgacta agttgctcca 660  
 gagtgtagg ggcaaaccac agttagtaag ctcttatga acaaccccca tatcaagtac 720  
 tttgtccatt tgcaggca 738

<210> 445  
 <211> 716  
 <212> DNA  
 <213> Homo sapiens

<400> 445  
 gcggccgcta gtgctccagc tcgcgctccg ccctcaggca cagcatcccc acgggcctcc 60  
 acgccaacct gtccgagggc cgccccgtgg gtccggcccc ccgtggcgcc tcatcgctgc 120  
 tcggcccgga aggtctcttc cttggcaaga tgggattccg ggaggcggtg gcggccggag 180  
 acgtggattt gcctcaggtg cggagccgca gctacaggag gatgctcgcg aggaccccca 240  
 gagctccgcc cggagggtac tgtgaggccg ttaggagctg gcgggtggatg acttccgcac 300  
 tcaaacactg gagccatcac acggaagcac gaggagggtg tcctcggcag ctactcccgg 360  
 tcgctcaagg tgtctctcgc tcgccctcta ggtgcgggag gagctcgagg cccaactaag 420  
 ctgcttccgg gagctgctgg gcagggcccc cacgcacgcg gacgggcacc agcagctgca 480  
 cgtgctccca ggtggacaga cgccttcgtg ggcctgagca cttgcggccg gcacatgtcc 540  
 gctcaccgcg tgtccggggc cctggcgcg gtcctggaag gtaccctagc gggccacacc 600  
 ctgacagccg agctgatggc gcaccccgcg taccacagtg tgccctccac cggcggtgctg 660  
 ggtgaaggcc ccgacgcttt ctctttgctc ttgggaagcg gcttgcatgt agcttg 716

<210> 446  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 67, 125, 157, 273, 364, 381, 408, 481, 506, 520, 626  
 <223> n = A,T,C or G

<400> 446  
 gctncagctc gcgctccgcc ctcaggcaca gcatccccac gggcctccac gccaacctgt 60  
 ccgaggnccg ccccggtgggt ccggcccgcg gtggcgccctc atcgctgctc ggcccggaag 120  
 gctttttcct tggcaagatg ggattccggg aggcggnggc ggccggagac gtggatttgc 180

```

ctcaggtgcg gagccgcagc tacaggagga tgctcgcgag gacccccaga gctccgcccg 240
gaggggtactg tgaggccgtt aggagctggc gnggatgac ttccgcattc aaacactgga 300
gccatcacac ggaagcacga ggagggtatc ctccgcagct actcccggtc gctcaagggtg 360
tctntcgcctc gccctctagg ngcgggagga gctcgaggcc caactaanct gcttccggga 420
gctgctgggc agggccccc cgcacgcgga cgggcaccag cacgtgcacg tgctcccagg 480
nggacagacg ccttcgtggg cctgancact tgccggccgn acatgttccc tcacccgcgg 540
gtccggggccc ttggcgcggg tcctggaagg taccctacgg gccacaccct gacagccgaa 600
ctgatggccc accccggcta ccccanagtgt gcctccaccc g 641

```

<210> 447

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 540, 580

<223> n = A,T,C or G

<400> 447

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gaattcgaac cccttcgctt ttagaaaatt gtatatgcag ctggatgaag gcagcctcac 60
ctttaatgcc aaccagatg agggagtga ctactttatg tccaagggtg tcctggatga 120
ttcgccaaag gaaatagcaa agtttatctt ctgtacaaga acactaaatt ggaaaaaact 180
gagaatctat cttgatgaaa ggagagatgt cttggatgac cttgtaacat tgcataat 240
tagaaatcag ttcttgccaa atgcactgag agaatttttt cgtcatatcc atgccoctga 300
agagcgtgga gagtatcttg aaactcttat aacaaagtgc tcacatagat tctgtgcttg 360
caaccctgat ttaatgcgag aacttggcct tagtcctgat gctgtctatg tactgtgcta 420
ctctttgatt ctactttcca ttgacctcac tagccctcat gtgaagaata aaatgtcaaa 480
aaggggaattt attcgaaata ccccgcgcg cgtcctcaaat attagtgaag aattttgtan 540
ggcatcttta tgacaatatc tacccttatt gggccatggn ggctggcata aaaaagcacc 600
aattggctaa ggactttcaa gttttttact ttcagaactt aaaagcttac cc 652

```

<210> 448

<211> 677

<212> DNA

<213> Homo sapiens

<400> 448

```

gaattcgaac cccttcggcg cctggcagag gtgaaggact ccctggacat cgagggtcaag 60
cagaacttca ttgacccctt ccagaacctg tgcgagaaag acctgaagga gatccagcac 120
cacctgaaga aactggaggg ccgcccctg gactttgact acaagaagaa ggggcagggc 180
aagatccccg atgaggagct acgccaggcg ctggagaagt tcgaggagtc caaggaggtg 240
gcagaaacca gcatgcacaa cctcctggag actgacatcg agcagggtgag tcagctctcg 300
gccctggttg atgcacagct ggactaccac cggcaggccg tgcagatcct ggacgagctg 360
gcggagaagc tcaagcgag gatgcgggaa gcttcctcac gccctaagcg ggagtataag 420
ccgaagcccc gggagccctt tgaccttgga gagcctgagc agtccaacgg gggcttcccc 480
tgcaccacag cccccaagat cgcagcttca tcgtctttcc gatcttccga caagcccatc 540
cggaccccta gccggagcat gccgcccctg gaccagccga gctgcaaggc gctgtacgac 600
ttcgagcccg agaacgacgg ggagctgggc ttcatgaggg cgacgtcatc acgctgacca 660
accagatcga tgagaac 677

```

<210> 449

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

&lt;222&gt; 10, 213, 287, 574

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 449

```

ttttttgtan aaagagacat ttaatacttc tgtttacaaa attcaggcgt acatttcagt 60
ttgccctgga ccgtgcccaa agctgtgtgc tcatctctgc gcccctcatg tacttctgac 120
gaggggggtg cagggcaggg cagagcagag cctgggggtcc ggaggcttca ctggaccaca 180
gggggagggg aatgtgaatg tggcctggcc canagaactc cccatttcat cgattttgca 240
ttgggcgata gaggaagcag atgtcggggc tgccctgcctt ggtctanagg agatggctgg 300
ggccacttcc cacagggtga agtggcagcg gctcagcaag gggagcctgg ccaccagggg 360
ctgggacatg cgctcactgg aacctttgtg cttggccctc ggcagcgcgg ctgtgtgtccc 420
gtgtgaggtg tgctgggggtg ggggtgtgggt ggctgtgtgt ggcagcttgt gccagagtga 480
cacaggcctc cctggggttg gatgggggca agtataaaaag ctgaaaagggt acttggcttt 540
ctgagggcgg gcttgggagc aggcctgcga gganaccatg ttctctgtcc tcagcagatc 600
cac                                                                                   603

```

&lt;210&gt; 450

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 29

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 450

```

gaattcgaac cccttcgcat caatataana tgccacccat ctgcagttaa tttcttttcc 60
tcatcatgtg attaaaagtg gtgattcagt gggaaactggg aatgttttta gctgggtggt 120
gaaggctgcc tacactgggc actgttttag attctcatat catttaaaca gcaaggagggt 180
tcagggaaga ataaccgtag ccttgggtaa tccactaggg cttttgtgag taggagagct 240
gatacctcac attcttagca ggtgaaaact tgccatgatg gaaacagata gtgaagagtt 300
actgacgtat cccaaattat atgctgtgac ataaattccc agcatgcccc gccctgattt 360
ctgagttcat aagtaattct agtgaacctt agtaggaatt ctgggtaaga aaatgagggt 420
gccattggtc ttgtttgcat caccaagacc agacatccag aagagcccct caccttgaaa 480
agcagacaga ttttaaatata accccctcct tcccactcac cttcatctcc ctaagagttt 540
tgccatttta attccacatt ttgaaaggaa tacattggtg aaatttgggg agagaatctg 600
tgctatgcaa tgtttcatta aaatcttcag tttttcaagt ctctctaaaa ataatttgta 660
gatctatctt ggatggat                                                                                   678

```

&lt;210&gt; 451

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 30, 60, 351, 354, 419, 498, 540, 582

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 451

```

tttttcatca acaaaaatca agcattttcn tttttttgaa acaagaaaag cgcacgtan 60
aaaccaagat tctgtacaat attctaakat tatatgtaca taaaattata ttactcataa 120
ctatattgaa aagtcttatt tgtagaatat ggctggcaac aaagaaagac ccataaccatt 180
tagcgtttga agcagggcag gtagcaagag aacattagca aagacacctt tgtgcctgga 240
tacacaatcc tgctactaag ttatgtgact aaccagcaca ctctaagttc tgtgggtttgt 300
tcgttgtttc acattctagt aggggaattct gcagcagggc atgcgaaaaa naanacatgg 360
tcaaatgaaa tgtgaaatgc tgttttaaaat ctgcataattg gctatgataa tgggtttgng 420

```

```

aatccaagtt gcattggaag ttcaactcatt ctccattcat tatgcatgcc tccagtgtatt 480
taatgaattt cagcagnggg aaaagacagc tttgaacaga tcagatgggc tgtgagtcan 540
attcttgatt ctttttcctc atttggtcc tgaatgttgc anaaaactgg ttttgtacac 600
tggggaagga gagagtgaag accctccagt tggttcctca gtcagctccg t 651

```

<210> 452

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 30, 31

<223> n = A,T,C or G

<400> 452

```

gaattcgaac cccttgcgat tgctcagccn nctaccactg ctaagagcca tctccaccag 60
aagcctggcc agacctggaa gaacaaagag catcatctct ctgacagaga gtttgtgttc 120
aaagaacctc agcaggtagt acgtagagct cctgagccac gagtgtattga cagagagggt 180
gtgtatgaaa tcagcctgtc acccacaggt gtatctaggg tctgtttgta tcctggcttt 240
gttgacgtga aagaagctga ctggatattg gaacagcttt gtcaagatgt tccctggaaa 300
cagaggaccg gcatcagaga ggatataact tatcagcaac caagacttac agcatgggtat 360
ggagaacttc cttacactta ttcaagaatc actatggaac caaatcctca ctggcaccct 420
gtgctgcgca cactaaagaa ccgcattgaa gagaacactg gccacacctt caactcctta 480
ctctgcaatc tttatogcaa tgagaaggac agcgtggact ggcacagtga tgatgaaccc 540
tactaggga ggtgccccat tattgcttca ctaagttttg gtgccacacg cacatttgag 600
atgagaaaga agccaccacc agaagagaat ggagactaca catatgtgga aagagtgaag 660
atacccttgg atcatggtg 679

```

<210> 453

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 30, 31, 39

<223> n = A,T,C or G

<400> 453

```

gaattcgaac cccttcggaa ggccaagggg ntagaaggng gctccggccc cagctgtcgt 60
gaagaagcag gaggctaaga aagtgggtgaa tcccctgttt gagaaaaggc ctaagaattt 120
tggcattgga caggacatcc agcccaaaag agacctcacc cgctttgtga aatggccccg 180
ctatatcagg ttgcagcggc agagagccat cctctataag cggctgaaag tgcctcctgc 240
gattaaccag ttcacccagg ccctggaccg ccaaacagct actcagctgc ttaagctggc 300
ccacaagtac agaccagaga caaagcaaga gaagaagcag agactgttgg cccgggcccga 360
gaagaaggct gctggcaaag gggacgtccc aacgaagaga ccacctgtcc ttcgagcagg 420
agttaacacc cgtcaccacc ttggtggaga acaagaaagc tcagctgggtg gtgattgcac 480
acgacgtgga tccatcgag ctggttgcct tcttgccctgc cctgtgtcgt aaaatggggg 540
tcccttactg cattatcaag ggaaggcaa gactggggac tctagtccac aggaagacct 600
gcaccactgt cgccttccac aggtgaactc 630

```

<210> 454

<211> 677

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
<222> 29  
<223> n = A,T,C or G

<400> 454  
gaattcgaac cccttcgccc gcatgcggna catccccttg gccccagggg cagactggcg 60  
cgatctgccc aacatcgagg tgcggctctc agacggcacc atggccagga agctgcggta 120  
taccacccat gacaggaaga acggccgcag cagctctggg gccctccgtg gggctctgctc 180  
ctgcgtggaa gccggcaaaag cctgcgaccc cgcagccagg cagttcaaca cctcatccc 240  
ctgggtgcctg ccccacaccg ggaaccggca caaccactgg gctggcctct atggaaggct 300  
cgagtgggac ggcttcttca gcacaaccgt caccaacccc gagcccatgg gcaagcaggg 360  
ccgcgtgctc caccacagagc agcaccgtgt ggtgagcgtg cgggagtgtg cccgctccca 420  
gggcttccct gacacctacc ggctcttcgg caacatcctg gacaagcacc ggaggtggg 480  
caatgccgtg ccaccgcccc tggcaaaagg attggcttgg agatcaagct ttgtattgtt 540  
ggccaaaagg cgagagagt cctcagctaa aataaaggag gaggaagctg ctaaggacta 600  
gttctgcctt cccgtcaccc ctgtttctgg caccaggaat cccccacaat gcacttgatg 660  
gtgggggtttt aacatgt 677

<210> 455  
<211> 598  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 465, 541, 556  
<223> n = A,T,C or G

<400> 455  
tttttttggtt tataggagag atttatattga agaaatatta caacatataa aaactacata 60  
aagtcttaat ttccactcat acagtggtag atttgatata atgcataata aaaaactttt 120  
aaaatccaga atgcacaaag tactgcacaa tttgatcact aaatcattag ttgataagcg 180  
aacctcacac aacagcttca tgtcagccaa ggccacaaac accatgtacc acacatgtga 240  
acggacagat tgacatgtta aaaacacaa atcagtgcat gttggggatt cctgggtgcca 300  
gaaacagggg tgacgggagg gcagaactag tccttagcag ctctcctcctc ctttatttta 360  
gctgaggcac tctctcgggc tttggccaa atacaaagct tgatctccaa gccaatggct 420  
ttggccaggg gcggtggcac ggcattgcc acctgccggg gcttngtcca ggatgttgcc 480  
cgaagagccg gtaggtggtc aagggaagcc cctgggggag cgggcacact cccggacgct 540  
naccacacgg tgctgntttt gggtaggagca ccgcggcctt gcttgcccat gggctcgg 598

<210> 456  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 456  
ggaattcgaa ccccttcggg gcggggagcc ccgtagaacc gagggggctg gccggggggg 60  
cccggggggg gtggagatgg tgaaggggca gccgttcgac gtggggccgc gctacacgca 120  
gttgacgtac atcggcgagg gcgcgtacgg catggctcagc tcggcctatg accacgtgcg 180  
caagactcgc gtggccatca agaagatcag ccccttcgaa catcagacct actgccagcg 240  
cacgctccgg gagatccaga tcctgctgcg ctctcggccat gagaatgtca tcggcatccg 300  
agacattctg cgggcgtcca ccctggaagc catgagagat gtctacattg tgcaggacct 360  
gatggagact gacctgtaca agttgctgaa aagccagcag ctgagcaatg accatatctg 420  
ctacttcctc taccagatcc tgcggggcct caagtacatc cactccgcca acgtgctcca 480  
ccgagatcta aagccctcca acctgcttca tcaacaccac ctggcgacct ttaaaatttg 540  
tgaatttccg gcctggcccc cggattgccc gaat 574

<210> 457

<211> 546  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 234, 534  
<223> n = A,T,C or G

<400> 457  
ttttttgaca catctctata tttatatatt agacgggtca gggaggtggc aggggcgccg 60  
ggctctccac gccccccagc tccacttctg ctcaccacac acagaagcag cgagggcacg 120  
cgaagtgaca gctttgacag ggaggggatt cggccccggc tggctcctca gggatgctag 180  
cccttgagac taagggaatgt tccttcaggg aaactagggt ggggtttgaa tganatgagg 240  
ggggcaggca tggccctgag tccctactca gcgcccccca cctccacct ctgcccttca 300  
gcaggttggg gcagccagaa cccttccatt ccagaactgc cagagactgg gacgctgggg 360  
aaggttaagg cgcagcagca gcagcgggag attgaactgg ggccacctga gctcccgagg 420  
ccccgtgggg agggcggttg gggaggaaaa ggcttggcc tgcttgaagc tggaggcctc 480  
agcaaaggag agaggtggcc aggcccatgc tccaccccg cctgggctgc caanggtccc 540  
gggctg 546

<210> 458  
<211> 674  
<212> DNA  
<213> Homo sapiens

<400> 458  
gaattcgaac cccttcggta ttattaagaa ctaagagaat agcttgccag atacaaatgg 60  
aaacaccttc caaatgagtc ggagaaaatg tcttgagta ttatgggtaa aatagcaaaag 120  
agcttgggaa tacagtttgc taatatcaag tccttaacaa cgaccattct tcattcaaga 180  
ttagttgtgt ataaatacat gcttcttcag gaggttgact agaaaacaag caaacaacaa 240  
aacatcagaa actattttaca actgggagca atccttgaag aacataaaga atataaatat 300  
caacaaaggc tgaaaactct ttttttagatt aaagatcaaa tggacatgtc atcggaatgt 360  
attgtatggc tcttgattaa atcctggagc aaagtggaga gtgaggaaca actgtaaaga 420  
atgtgaatac ggactgtgta ttagataaca gtaccataaa tttcctggat gggataatta 480  
tgttgtgact atgtaagaga atattttgcc cttagaagat atatgatgaa gcatttagaa 540  
gtaaagtatc atgacatctt gcaaataact ttcaagtgat tcagccagat atataaaaaat 600  
tatatataac acattatata atttatatatt atataattat aatacattat ataatttata 660  
cattataatt atat 674

<210> 459  
<211> 682  
<212> DNA  
<213> Homo sapiens

<400> 459  
ttttttttaa tccatggctt gttaattgtc atcccagtta tttacatgtg actatagaga 60  
ctgcattctc ccagctgcca ggccgcccagg gctttgccac tgggtataatt tataacacga 120  
ctaattaaaa tgaatttgct tgcaataagg ttctgtgtgc tatttgtggg agaggagtta 180  
ttaaaatttt cagtacagta atagtaaaact tgaatgcaaa gtaataataa tcatacattt 240  
ttaattacat gtttaatacc catttggcta atgtagaact attctgaaaa ttacttggga 300  
tcagcacaat gtctttttgt gcttagtagt atccaaagac atccttctga atgggcttag 360  
caatatgcac tgtcatcaag atacagctgt ttgatgacag acacacagtg tgttcttatg 420  
atactttgca caagatcagc tatgacaaat acaagttcat tttgcttatt gcaggcaaat 480  
aatgtccttt gcagggaact ggatggagcc agaggccatt attctaagtg aaataacctca 540  
ggagtggaaa accaaatacc atatgttctc acttacaagt gggaactaag ctatgggtac 600  
acaaacgcat atagagtaat ggactctggc gactcatact acatattgag tacaatgtac 660  
actacttggg tgatgggtgc ac 682



<210> 460  
 <211> 663  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 628  
 <223> n = A,T,C or G

<400> 460  
 gaattcgaac cccttcgcgg ggcgcgcgag cggcgccagc tcggggcagc ggaacccaga 60  
 gaagctgagg gggcggtagc ggcggcgacg gcgacgacga cgactcccgc gcgtgtgccc 120  
 agcctcttcc cgccgcagcc gcccttttcc tccctccctt acgtccccga gtgcggcagt 180  
 accgcctcct tcccagccgc gcggcttcct ccagacctct cggcgcgggg gagccctatt 240  
 cccagaggca ggtgggtgctg accctgtaac ccaaaggagg aaacagctgg ctaagctcat 300  
 cattgttact ggtgggcacc atgtccttga agcttcaggc aagcaatgta accaacaaga 360  
 atgaccccaa gtccatcaac tctcgagtct tcattggaaa cctcaacaca gctctggtga 420  
 agaaatcaga tgtggagacc atcttctcta agtatggccg tgtggccggc tgttctgtgc 480  
 acaagggtta tgcctttgtt cagtactcca atgagcgcca tgcccgggca gctgtgctgg 540  
 gagagaatgg gcgggtgctg gccgggcaga ccctggacat caacatggct ggagagccta 600  
 agcctgacag acccaagggg cttaaaganaa gcagcatctg gcatatacag gctcttcgac 660  
 tac 663

<210> 461  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 19, 44, 134, 151, 199, 258, 337, 422, 491, 564, 590, 594  
 <223> n = A,T,C or G

<400> 461  
 ttttttggga tccaatctnt ttattgtcag ggtcccctcc ctgnggcccc ccgccaaacc 60  
 tatagaaaaa acccaagcct gggagtgtcc tggggagggg aggtagtatg gggaaacccc 120  
 tgtgctctac cctntggcct gggcagtgca nacaggagg gctcatgggg aaggagtagg 180  
 ccagtaactc cacctgcana ggacatggca ctggctggga tgcgttgggg gaggaggcgc 240  
 ctgctgccag ctttcctntg gtaccgcgtg ggggggtggca tccagggttg ggtgcccggc 300  
 ttgaggcctg gggcagcgat gcccttcacc tgctggnggc cattgctcct gtcaggctgc 360  
 ttactgcaag gccccatcat ccgcgtctgt gtccctggctg tgttccagct cttoctcgct 420  
 gngtgtcagg agcccttcct catcgccgtc gtctcgggtc cgtgcttccc cctggggcag 480  
 gcctgcctca naagtttgtt tctcttgggg ggctggtggc cggttggtgc caccgcaccg 540  
 caccaccact ggcaccggca ccgntgcacc accaccgccc ccgccgccgn tggngccacc 600  
 ttcatacccc tt 612

<210> 462  
 <211> 672  
 <212> DNA  
 <213> Homo sapiens

<400> 462  
 gaattcgaac cccttcggat ggaagggggc ggggcagcgt cggggaaagg aagggccgga 60  
 ggcgcggcgg cgggcggccg agagggggcg cggcggcggc ggcggcgggg tccccgcgcc 120  
 gcggagcccg gcccgagagc cgcgtccacg ttcctgcctc ctgctcccgc cgccctgggg 180  
 cgccgcatg acgcccgatc tgctcaactt cagccccaga tgtaaccaag ctctcggact 240

```

ctaacaagga gaacgcgctg cacagctaca gcacccagaa gggccccctg aaggcagggg 300
agcagcgggc gggctctgag gtcacacagc ggggtggccc tcggaaggcg gacgggcagc 360
gtcaggcctt ggactacgtg gagctctcgc cgctgaccca ggcttccccg cagcggggcc 420
gcacccagc ccgcactcct gaccgccttg gccaaagcagg aggagctgga gcgggacctg 480
gccagcgcgt ccgaggagcg gcgcaagtgg tttgaggcca cagacagcag gacccagag 540
gtgcctgctg gtgagggggc gcgccggggc ctgggtgccc cctgactgag gaccagcaaa 600
accggcttag tgaggagatc gagaagaagt ggcaggagct ggagaagctt gcccttgcgg 660
gagaataacc gg                                     672

```

<210> 463

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 40, 41, 501

<223> n = A,T,C or G

<400> 463

```

ttttttaaag tataaagtgt tttggaaaaa aaggaaaaan ntctatataa aaatctcttc 60
acatatataaa tcctgaagaa ggtgcaagggt gagaccagct gcgaggggcg tgctcagata 120
tgcagtgtgt gtgtgtgtgt gtgtgtgtgt gtatccgtgt gtacatgtgt gcacgtgtgt 180
gcgtatgtgt ctgtgtgtct gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt ggtgggtgca 240
agtgcacgtg tggcccacag aggggtgggga gaaagcttgg ctttttactt ccatccagga 300
gggaaggagg gcggctggtc ctccagcctg gaggtctctg agctgggagg gacctctact 360
cagccaggct gttgcgcacg gactccttct cctggagggc ggccatggca agacgcagggt 420
gctccttcag ctgctcgatc tcccgcctcag accgtgtctt gatgtggctc aactccacat 480
agacgtcctg gtactttccc naggtgaagc gcttgcctt ctgcatcatc tggagctcgt 540
cccggaggca ctgcacctc ct                                     562

```

<210> 464

<211> 553

<212> DNA

<213> Homo sapiens

<400> 464

```

gaattcgaac cccttcggga ccaggaaccc aggagagcat ggccacgctg cgccggcttc 60
gggagggcgcc gcggcactta ctgggttgcg agaaatccaa cttcggcaac cacaagtcgc 120
gccaccggca tcttgtgcag acgcactact ataactacag ggtttcattt ctcatctctg 180
aatgtgggat actatcgga gaactgaaaa acctggatcat gaacactgga ccctattact 240
ttgtgaagaa tttacctctt catgaattaa ttacacctga attcatcagt acctttataa 300
agaaagggtt ttgctatgca ctaacataca atacacatat tgatgaagat aatactgttg 360
ccctgctacc aaatgggaaa ttaattttgt cactggataa agacacttat gaagaaactg 420
gacttcaggg tcatccatct cagttttctg gcagaaaaat tatgaaattt agttcagaag 480
aatcgacaat gatgtcatat ttttccaagt accaaattca ggagcatcag ccaaaagtag 540
cactgagccc gtt                                     553

```

<210> 465

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 50, 73, 121, 161, 196, 233, 240, 255, 265, 267, 285, 374

<223> n = A,T,C or G

&lt;400&gt; 465

```

tttttggaag aaaacacgat ttttaatttt ttttttttat gggggacagn gatcatttgc 60
cccaacagcc atntgaagcc aatagtoctg attattaaaa atcacaaagt tatataaatg 120
ntctcctcct tttcgaaaac catgttcatt tttttcccaa naaacagggc tgtctgcaaa 180
gccttgaacg gacagngtaa cccatggagc taacttcggt tcatcaaagt agngacagan 240
atgttccaat agganacaga tcttntntgg aagtatgaag ccagngattg tacacaaata 300
agcttttgcc accactgtgc ttggctcagg acagcaatag gttgatatga aattattagg 360
ctcattatatt aggnccgacat tac                                     383

```

&lt;210&gt; 466

&lt;211&gt; 673

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 466

```

gaattcgaac cccttcgctc cctcctgcac gcaatggtgg cctatgatcc cgatgagaga 60
atcgccgccc accaggccct gcagcacccc tacttccaag aacagaggaa aacagagaag 120
cgggctctgg gcagccacag aaaagctggc tttccggagc accctgtggc accggaacca 180
ctcagtaaca gctgccagat ttccaaggag ggcagaaagc agaaacagtc cctaaagcaa 240
gaggaggacc gtccaagag acgaggaccg gcctatgtca tggaactgcc caaactaaag 300
ctttcgggag tggtcagact gtctgtttac tccagcccca cgctgcagtc cgtgcttgga 360
tctggaacaa atggaagagt gccggtgctg agacccttga agtgcatccc tgcgagcaag 420
aaggtagcgc ggaaccagct tctctgacgg cgctgctctt cgaccagcc caggccgcca 480
ctgaattttg tgtctgtaat ttttctttga cagacagatc cgcagaagga ccttaagcct 540
gccccgcagc agtgctgcct gccaccata gtgcggaaag gcggaagata actgagcagc 600
accgtcgtct cgacttcgga ggcaaacacca agcccgaccg ggccaggcct ggggtgatctg 660
ctgctgagac gcc                                     673

```

&lt;210&gt; 467

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 25, 44, 53, 65, 115, 145, 149, 212, 238, 270, 289

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 467

```

tttttactgg aacgacagct tatnttttaa taaaagtcag gggngtcagc agngtcactg 60
gtaanacatg atggcgctcc acgactgacc agcagcgctg ggaagggaca cgcanaaccc 120
accttccaac cagccccaac acatnacana aatgcctgct cgtttgtttt gattcatata 180
caaagttaca aagtatttcc tgccccaaat tnttaacgaa aatgaaagaa aaccctanaa 240
tgcggggggt ttacaagtat attagccan aacatcctag gcagctgcnc gggccgcggg 300
tgcggcaggg cgcagggcaa cacccaaagc cccggccagc gcgaaacgga cgcaggcgca 360
tccccagccc tcc                                     373

```

&lt;210&gt; 468

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 62, 485

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 468

```

gaattcgaac cccttcgctg ctgtcctact tgatgcttgt cactgtcatg atgtggcccc 60
tngctgtgta ccaccgactg tgggatcgag catatgtgcg gctgaagcca gctctgcagc 120
ggctagactt cagtgtccgt ggctacatga tgtccaagca gagagagaga caattacgcc 180
gcagagctct ccaccagaa cgagccatgg acaaccacag tgacagcgaa gaggagcttg 240
ctgccttctg tcctcagctg gacgattcta ctgttgccag ggaattggcc atcacagact 300
ctgagcactc agacgctgaa gtctcctgta cagacaatgg cacattcaat ctttcaaggg 360
gccaaacacc tctaacggaa ggctctgaag acctagatgg tcacagtgat ccagaggaat 420
cctttgccag agaccttcca gacttccctt ccattaatat ggatcctgct ggctgggatg 480
atgangacga cactagcatt ggcatgccc gcttgatgta ccgttctccg ccaggggggt 540
gaggagcccc aaggccccac ctgccagccc ggg 573

```

&lt;210&gt; 469

&lt;211&gt; 635

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 3, 52, 83, 84, 551

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 469

```

tcncgatcta gaactaggtt ggacaggctt gctcaagttt caccagagtt antactggcc 60
tctgttcgca gagtttttag tttnnactct cagaattggc agactacacg gtttatggaa 120
gttgaagtag caataagatt gctgtatatg ttggcagaag ctcttccagt atctcatggt 180
gctcacttct caggtgatgt ttcaaaagct agtgctttgc aggatatgat gcgaactgta 240
agtatactgg agataatttt gaccataaat ttctgttttc agtataagct aatgggagtt 300
ccttaattgt tagagcttag tataatgttaa taccggggca ttttgatggt gcaataaata 360
agaagaggtt tcctaacttt ttctctgatc agctggtaac atcaggagtc agttcctatc 420
agcatacatc tgtgacattg gagttcttcg aaactgttgt tagatatgaa aagtttttca 480
cagttgaacc tcagcacatt ccattgtgtac taatggcttt cttagatcac agaggtctgc 540
ggcattccag ngcaaaagtt cggagcagga cggcttacct gttttctaga tttgtcaaata 600
ctctcaataa gcaaatgaat cctttccttg aggat 635

```

&lt;210&gt; 470

&lt;211&gt; 593

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 31, 138, 140, 226, 469, 484, 567

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 470

```

gaattcgaac ccttcggtat taacaaatat ntacatttct atttttataa tccataagga 60
tatgcctggt ttaaataaca tacatatata caatatctat caggaaaacc ctcaagacag 120
cttctagtta aaaccttngn tgctgtcctc tcaaactata tttataaaaaa tttgctaggg 180
ccaaatccat acttgcagaa taattcatca aattttattt ttaagngaaa agtaaccttt 240
caggcatttc agcagcatatc attgacaatc tagggtatat atgtatgtat gtttcttatt 300
gtatgtctat atatgtatgt ggggaggaca ggagtgaatg ttcacacact tttcttgctg 360
actcaactaa attggagaat gtttctgaag aaaattggat gaaattagct gctgagattg 420
agtttctgcc ttaaaatctg aaacaaaaaa agggacaaat tgctggtang atctactgac 480
tgtngccatc accagaacac ttagtttctt cccagacatg aatttctctga caggctctga 540
gccagaaaca cactgtgggc gtgcatntgg gtcaccctgg atatgcctcc act 593

```

&lt;210&gt; 471

&lt;211&gt; 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 349

<223> n = A,T,C or G

<400> 471

```
tttttttaaat cangggacat ttattaacat gcttcaaaag tgaccaaagt gtccagccag 60
cacaatagcc gaggcaatca acgttctctt agtgtgtgat ctcgtccaaa acaccaaata 120
aatagggttta ggaataacct caaataaatt gtaatttaa cttcgccaaa attatacatc 180
ctctactgct cttccctgct cctgtaaaga tactagcggg aggggagaaa gctcaaata 240
ctctgtaatt tagaattaca accagagaag aaatacttca agcacaataa agacgttcca 300
ttgaagagcg acattcattc tggaatgttt gttttgaaaa caactcttnt gggggaattc 360
aaaagggtact gaacaaagca acataaagta agttttgggt tgttttgcaa aataaaaaata 420
tacaattgag tggaccagat ggcaaaaaca taccaattac aatctgaatg ctatatattaa 480
aacccttaaa ttctgaaggc ctgaatatca acaaacctat ttatgtttat gatcctaaaa 540
agacattaaa tattattaaa cccccaactt ccaaaacata g 581
```

<210> 472

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 31, 625

<223> n = A,T,C or G

<400> 472

```
gaattcgaa ccttcggat ggcgtgatgt ntcacagaaa gttctccgct cccagacatg 60
gggtccctcgg cttcctgcct cggaagcgca gcagcaggca tcgtgggaag gtgaagagct 120
tccctaagga tgaccggtcc aagccggtcc acctcacagc cttcctggga tacaaggctg 180
gcatgactca catcgtgcgg gaagtcgaca ggccgggatc caagggtgaa aagaaggagg 240
tgggtggaggc tgtgaccatt gtagagacac caccatggt gggtgtgggc attgtgggct 300
acgtggaaac cctcggaggc ctccggacct tcaagactgt ctttgctgag cacatcagt 360
atgaatgcaa gaggcgtttc tataagaatt ggcataaatc taagaagaag gcctttacca 420
agtactgcaa gaaatggcag gatgaggatg gcaagaagca gctggagaag gacttcagca 480
gcatgaagaa gtactgcaa gtcattccgtg tcattgcca caccagatg cgcctgcttc 540
ctctgcgcca gaagaagccc acctgatgga gatccagggtg aacggaggca ctgtggccga 600
gaagctggac tgggccccgc gagangcttg agcacaggta cctgtgaacc aagtgtttgg 660
gcaggatgaa aatg 674
```

<210> 473

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 30, 73, 101, 163, 196, 206, 309, 325, 345

<223> n = A,T,C or G

<400> 473

```
ttttttcagn ggaaaataac ttttattgan accccaccaa ctgcaaaatc tgttcctggc 60
attaagctcc ttnttccttt gcaattcggc ctttcttcag nggtcccatg aatgctttct 120
tctcctccat ggtctggaag cggccatggc caaacttgga ggnggtgtca atgaacttaa 180
```

```

ggtcaatctt ctccanagcc cgccgnttcg tctgcaccag caaggacttg cggagggtga 240
gcacccgctt cttgggtccc accacacagc ctttcagcat gacaaagtca ttggtcactt 300
caccatagng gacaaagcca cccanagggt tgatgctctt gtcanatagg tcatagtcag 360
tgaggagcatt gttcttgatc agcttgccgt ccttgataag gtagccctgg ccaatcttat 420
aaatcttctt gttgatctca gtgcggtgat ggtagccttt ctgcccagcg cgtgccacag 480
agaaggctac acgagcagga tgccatgccc caatacaggc caccttgcg caggcctcgg 540
gggtcttgcg gggcagcttc ttggtgtgcc aacgactggg gacccttttg tagcctttgc 600
ccttggtcac cccgatgacg tcgatcatct catcctgccc aaacac 646

```

&lt;210&gt; 474

&lt;211&gt; 544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 32, 495

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 474

```

gaattcgaac cccttcggga gcacactccc antcggccgc agcctgacac gccgcgcggc 60
ccccagctct cccgcggctg ctccccagg catggcacag ggcctcgcct cactatggca 120
gcagcacggc acagcacgct cgacttcatg ctcggcgcca aagctgatgg tgagaccatt 180
ctaaaaggcc tccagtccat tttccaggag caggggatgg cggagtcggg gcacacctgg 240
caggaccatg gctatttagc aacctacaca aacaagaacg gcagctttgc caatttgaga 300
atttaccac atggattggg gttgctggac cttcagagtt atgatgggta tgcgcaaggc 360
aaagaagaga tcgacagtat tttgaacaaa gtagaggaaa gaatgaaaga attgagtcag 420
gacaagtact gggcgggtga aacgattacc acccatagtg cgaggaggag ccatcgacag 480
atactggccc accgncgacg ggcgccttgg ttgaatatga catagaatga agtggtatat 540
gacg 544

```

&lt;210&gt; 475

&lt;211&gt; 578

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 31

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 475

```

gaattcgaac cccttcggga gaaccccatg ngggaacttc gcatccgcaa actctgtctc 60
aacatctgtg ttggggagag tggagacaga ctgacgcgag cagccaagggt gttggagcag 120
ctcacagggc agaccctgt gttttccaaa gctagataca ctgtcagatc ctttggcatc 180
cggagaaatg aaaagattgc tgtccactgc acagttcgag gggccaaggc agaagaaatc 240
ttggagaagg gtctaagggt gcgggagtat gagttaagaa aaaacaactt ctgagatact 300
ggaaaactttg gttttgggat ccaggaacac atcgatctgg gtatcaaata tgacccaagc 360
attggtatct acggcctgga cttctatgtg gtgctgggta ggccaggttt cagcatcgca 420
gacaagaagc gcaggacagg ctgcattggg gccaaacaca gaatcagcaa agaggaggcc 480
atgcgctggg tccagcagaa gtatgatggg atcatccttc ctggcaaata aattcccgtt 540
tctatccaaa agagcaataa aaagttttca gtgaaaaa 578

```

&lt;210&gt; 476

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 46, 51

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 476

```
ggaattcgaa ccccttcgct cctgcctgtc cgccatgttt tcaggncggg nctggccttg 60
tcttcccccg taaggaaatg gccggggagc tccaggggac ccaggcgccg tcgcttcggc 120
ggagcctggg ctgaccagcc aggacagcgg ggtaaaccgg aacaattctg cgcgaggtag 180
ggaggccatg gcgtccggca gtaactggct ctccgggggtg aatgtcgtgc tggatgatggc 240
ctacgggagc ctggtgtttg tactgctatt tttttttgtg aagaggcaaa tcatgcgctt 300
tgcaatgaaa tctcgaaggg gacctcatgt ccctgtggga cacaatgccc ccaaggactt 360
gaaagaggag attgatattc gactctccag ggttcaggat atcaagtatg agccccagct 420
ccttgcagat gatgatgcta gactactaca actggaaacc cagggaaatc aaagtgtgta 480
caactatctg tataggatga aagctctgga tgccattcgt acctctgaga tcccatttca 540
ttctgaaggc cggcatcccc gtcccttaat gggcaagaat tttccgcttc taccttgctg 600
gatcttgcga aacactagt                                     619
```

&lt;210&gt; 477

&lt;211&gt; 674

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 477

```
gaattcgaac cccttcgggg tgcttcgactg ctagagccga gcgaagcgat gcctaaatca 60
aaggaacttg tttcttcaag ctcttctggc agtgattctg acagtgaggt tgacaaaaag 120
ttaaaaggga aaaagcaagt tgctccagaa aaacctgtaa agaaacaaaa gacagggtgag 180
acttcgagag ccctgtcatc ttctaaacag agcagcagca gcagagatga taacatgttt 240
cagattggga aaatgaggta cgttagtgtt cgcgatttta aaggcaaagt gctaattgat 300
attagagaat attggatgga tcctgaagggt gaaatgaaac caggaagaaa aggtatttct 360
ttaaatccag aacaatggag ccagctgaag gaacagattt ctgacattga tgatgcagta 420
agaaaactgt aaaattcgag ccataataat aaaacctgta ctgttctagt tgttttaatc 480
tgtcttttta cattggcttt tgttttctaa atgttctcca agctattgta tgttttgatt 540
gcagaagaat ttgtaagatg aatacttttt tttaatgtgc attattaaaa atattgagtg 600
aagctaattg tcaactttat taaggattac tttgtctgcc caccctagt gtataataaa 660
atcaagtaat acat                                     674
```

&lt;210&gt; 478

&lt;211&gt; 663

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 41, 639

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 478

```
tttttttaag ctttcacaat ttttattaaa tcctagtcta nttgaacaat atctgatgtt 60
acagacatca tcccatgggtg aacatgttta ataagtgaag gcaagtcaga catctcatct 120
aagtcattat tttctgcaga ctaagcaata actacacaga acactatggg taaacaaaca 180
cctgctcagt tttcacacaa gccatgttgt ttatcaaatt agatctgcta atattgaata 240
cagtagatcc ggtgattgta gttctcatat aagtatctta ttgagataac attttgacag 300
tttactgac tttccaaata agcataccat aatcaaagaa aagaataaag agtgaagtaa 360
aaactgaaca tgaagagatt aagttattaa aggaaaatga agtaataaaa aagagtgaag 420
aaccattggg ggtggaagtc aaacaagcct agacatttga ttggaagaga aaagatcaaa 480
tatgaagttc acaaaccaaa agttttataa ctcaatgcaa tacaatccct ttttattgta 540
aaagctgagt tgaaactaaa agatctataa aaactgttac ttttggcctt aaacagtacc 600
```

aactcttatg atcaaaaaag gccacacagt taagattgna ttacttgatt ttatitttaca 660  
cta 663

<210> 479

<211> 673

<212> DNA

<213> Homo sapiens

<400> 479

gaattcgaac cccttcgaat gaagaactct ccagggatct agtgaataaa ctaaaaccct 60  
acatgagctt cctgactcag tgccgtcccc tgtcagcgag catgcacaac gccatcaagt 120  
tccttaacaa ggaaatcacc agtgtgggca gttccaagcg ggaagaggag gccaatcag 180  
aacttcgagc agccattgat cggatatgtc aagagaagat tgtgctagca gctcaggcaa 240  
tttcacgctt tgcttaccag aagatcagta atggagatgt gatcctggta tatggatgct 300  
catctctggt atcacgaatt cttcaggagg cttggacaga gggccggcgg tttcgggtgg 360  
tagtggtgga cagccggcca tggctggaag gaaggcacac actacgttct ctagtccatg 420  
ctggtgtccc agcctcctac ctgctgattc ctgcagcctc ctatgtgctc ccagagggtt 480  
ccaaggtgct attgggagct catgcactct tggccaacgg gtctgtgatg tcacgggtag 540  
ggacagcaca gttagccctg gtggctcgag ccataatgt accagtgtg gtttgcgtgtg 600  
aaacatacaa gttctgtgag cgtgtgcaga ctgatgcctt ttgtctctaa tgagctagat 660  
gaccctgatg atc 673

<210> 480

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 75, 84, 87, 89, 143, 183

<223> n = A,T,C or G

<400> 480

gaattcgaac cccttcgggg ggaggaagag gaggtggagg aggaggggtga tgttgatagt 60  
gatgaagaag aggangaaga tgangananc tcctcggagg gcttggaggc tgaggactgg 120  
gccaggggag tagtggaggc cgnatggcagc ttcggggcctt atgggtgcca ggaggaagcc 180  
cantgccta ctctgcattt cct 203

<210> 481

<211> 482

<212> DNA

<213> Homo sapiens

<400> 481

ccagacgctg cccatggagg cgtccagcga gccgccgctg gatgctaagt ccgatgtcac 60  
caaccagctt gtagattttc agtggaact gggtagggct gtgagctcag acacttgcag 120  
atctcttaag tatccttacg ttgcagtgat gctaaaagtg gcagatcatt caggccaagt 180  
aaagaccaag tgctttgaaa tgacgattcc acagtttcag aatttctaca gacagttcaa 240  
ggaaattgct gcagttattg aaacgggtgtg aagacggatt ctttggttga taaattgcta 300  
tcattctaaa gtcattggact tcactttcgg caacaaaact aaataaggat ggaacattta 360  
ttgaatgaaa aatgcacttt tgtttttcca tttttttaaa taataaaaaat cagacaaaaca 420  
gaaaaaaaaa aaaaaaaggg cggccgctcg agtctagagg gcccgtttaa acccgctgat 480  
ca 482

<210> 482

<211> 505

<212> DNA

<213> Homo sapiens



&lt;400&gt; 482

```

aaaatcttta gctgccaaga aagaagttaa gactctcagt gctgagagag actgaatcca 60
cctaggtgat aaggtgactg gaccagtaa accctttgtg tgctgggggg ttttatgcct 120
tgtagaacc agtgtagca agatttgggt accctacata cattcagtag ccaggaaagg 180
gtgattggat tgccagactc tgcctgctgg caaaaggatg agctgtagaa gctgaagtcc 240
taggtagtag atataaagaa gacaaattag gtggcacctt ctagactgtg caatgcatgg 300
atttggaaat gaatttttcc tctaattatt ctagggaaac cctgggctaa gaaaccaatg 360
taaaacctga tgaggtagtc tgtagtcaca ctgggtagag gtagaggcaa ccacaaaatt 420
attcttaaga atgcctccca ggcgcctgga agatgaaact ttctggtgaa tatgagctca 480
tggtaaaaat ttaggtcggg tgcag                                     505

```

&lt;210&gt; 483

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 483

```

tgcaaaaagg taacaaattc ataaactggaa agcaaagaga agaacaagta tgatttggat 60
gataaagcat tgttttaatg gtgaaaactt cacagatcac taatgtttct agaggttaac 120
ttcaagtggg caagctgggg tttttaggta gtcagtggcc tagttcctaa agccacagta 180
taggatctgt taaactgaat gtctgttgaa agtttgtttt agctgcttgg aggttccctt 240
ttaagacaaa ctgtatgtga ttaagttgtt ttgagggaac tgaagaacct gatgtagccc 300
ctggccagat aactgcctga tttctcagat attatttctc tgggaaacat tctacatagc 360
acaggagctt aagagtggca ttatcttctc gccttaattt ccagagatta tttctgtact 420
gagaatcctg gaactactat gctaggaaat ttaaagctgc atgggtctgtc ttgttttcat 480
ttaattattg tgaataccta g                                     501

```

&lt;210&gt; 484

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 484

```

gcactaagac caccttctat gaggagcagg gtgactacta cagccagtag atccgggcct 60
gcctggacca cctggccccc gactccaaga gttctgggaa ggggaagaag cagccttctc 120
ttcattacac tgotgtcag ctccctggaa aggtgtctt ggtggaaatt gaagatcttc 180
ccgcctctca cttcagaaac gtcatctttg acatcacgcc gggagatgag gcaggaaagt 240
ttgaagtaaa tgccaagttc ctgggtgtgg acatggagcg atttcagctt cactatcagg 300
atctcctgca gctccagtat gaggtgtgg ctgtcatgaa actcttcaac aaggccaaag 360
tcaatgtcaa ccttctcatc ttctcctca acaagaagt tttgcggaag tgacagaggc 420
aaaggggtgct acccaagccc ctcttacctc tctggatgct ttctttaaca ctaactcacc 480
actgtgcttc cctgcagaca c                                     501

```

&lt;210&gt; 485

&lt;211&gt; 504

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 485

```

cgcactcttg gaacattctt tctttcaaca acccaaggca tgcttctatc tcttttgag 60
gtttccctct aagtgttacc tctaagatag gcttttctct gacactctat gatggaacct 120
ctaggatttt ctctattgtt ttatgcttat tttgatattt gattcctaga attttaata 180
cattatataat catataaaat aaacctttta atattgaaat gaaaagataa aaatacatac 240
actaagttaa taggtcaaaa gtgtgagatc atcttgaaca ttatcttgaa gagaagatac 300
caatttacct tctgctcaga tcatgggtga cgatatcaca acctgcctag aataactctc 360
cttttctgaa ccatttattc actacttttg tcttccaatt aaatattagc ctgacttcaa 420
atatcatata ttagtttctt ttgtttatgt aattgaatta tataacatat attcattaga 480

```

gcctatTTTTT tttaaaattt ttgt

504

&lt;210&gt; 486

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 486

```

gagaggtcac tatggcgcoct ttctgcagga cgagtgggac ctgctccaaa gaatgatttt 60
gctggcccac gagaaactct ctgttcctgt cacgtgcaaa atccgtgtct tcccggagat 120
tgacaagacc gtgaggtacg cccagatgct ggagaaggcc ggctgccagt tgctgacggt 180
gcacggacgc accaaggagc agaaggggccc cctgtcgggt gcagcgtcct gggagcata 240
caaggctgtg cgggaaggctg tggccatccc tgtgtttgct aacgggaaca tccagtgcct 300
gcaggacgtg gagcgtgcc tccgggacac ggggtgtgcag ggctcatga gcgcagagg 360
caacctgcac aaccccgccc tgttcgaggg ccggagccct gccgtgtggg agctggccga 420
ggagtatctg gacatcgtgc gggagcaccc ctgccccctg tcctacgtcc gggcccacct 480
cttcaagctg tggcaccaca c

```

501

&lt;210&gt; 487

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 462

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 487

```

accattatatt agcagcaaaa aggaaagttt gaagacatta acaggaactg gtttaattgta 60
gtccttatctt gaaaaggaca gattgaatgc agccaaatta tggcaaagaa atcagtagga 120
caacccctat aaagggtagt tcttttaaaa aaaatttctt tattggcaac aacataaaag 180
atatgaaaga atcactcata atttatcagc ataacatagc tattctcatt tttgcaattg 240
acttttttagt tcttgaccaa atgtaatttt tattagttgt gattaactga ttttgtgctt 300
tttttaaaaa aaaaaaaaaac ctagaataag acatttgttt tgtaattat tataaatgac 360
tgtattcatt ctgtttatgt accataattt tggatgttcc tacgatgtta aacttttagg 420
ttgtttttta ttgtttgttc ttatagacaa ctctgtaagg gnttttaact gcttttatca 480
ggagaatgtc aaagaagtcc t

```

501

&lt;210&gt; 488

&lt;211&gt; 148

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 488

```

attctaagga tgaaatggct acagagcaaa ctgcagctga gagaaaactg cttggagttt 60
ggacagagggt ggaattgagt gtccacaggc cagctgagga ggtggtaccc agcactctat 120
gaacccttcg ctcaagtcag cctggagt

```

148

&lt;210&gt; 489

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 489

```

gctgtggatt cccctccaag tggaggagga tgggcaggct ggggatcctg gggcaaattct 60
ctgctgtcgt cagcatctgc cacagtaggt catggattga cggcagtcaa ggaaaaagca 120
ggagccactc tacggattca tgggtgtaaat tctggatctt ctgaaggagc ccaaccaa 180

```

```

actgaaaacg gagtccctga aataacagat gcagccacag atcagggccc tgcagaaagc 240
ccaccactt ccccttcac agcctctcgg ggtatgctgt ctgccatcac caatgtgggt 300
caaaacacag gtaaaagtgt cttaactgga ggccttgatg cgttggaatt catcggaag 360
aaaaccatga atgtccttgc agaaagtgc ccgggcttta agcggaccaa gacgctcatg 420
gagagaactg tttccttgtc tcagatgtta agggaagcta aggagaagga gaagcagaga 480
ctggcacagc agctcacgat g                                     501

```

&lt;210&gt; 490

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 490

```

attgcaaact gaaagtggac aaagacttaa ggtaaacctg ctccctcatgg tggaaatgctt 60
ccaaatgctg gaaggaggac tttagggcag agttcactaa ggaggcttgt gcttatagat 120
cagtgggcct gaaagaagtt tctctagggt ctgggttgtg gctgtacgag gtgtaggtag 180
taataatact cttgtcagcc acagtgaagc cccaagctag ccgggatagg ggactgacct 240
tgtacaggca gcatggagaa actaagacag agtgcctgc ccaagtgatg gcactgggga 300
gcagtcactc aggtttatct ccaccagggc ccaagaaaaa aagaaatgag gcaacctaaa 360
attccatcaa gatagatacc aatatccaag gtgcttggtc ttagcggtgt gggacccacg 420
ttaaggctct tggtgggaag gtgggaggtg ttttcagcat gagatagggt tcaggctgtg 480
aa                                     482

```

&lt;210&gt; 491

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 491

```

cgcctctccc cgtgatccct ctctcgctaa ccgtaggcgc ttttcgtgaa ggcccgggtt 60
tttacagcac ttcgcttttc taaccacgaa cagtgtcgt tcgttcgcag ggccagcaag 120
gagagccccg ccccgcgccg ccgcccgcgc ccgcccgcgc gccgccttg gatccgcgcg 180
actccgcccc gcccgccctc ccagggcatg gcgcccgtgc gcttctccgc caatctgtcc 240
tggtatttcc ccgagctccc cgccctcccc gcgcggtgc gggccgcggg cagctcgggc 300
ttcgaggccg tcgaggtggc ctggccgtac gcggagacgc ctgaggcgct ggcgcgcgcc 360
gcgcgagaag cggggctgcg gcttgtactg atcaaacacgc ccccgggaga ccaagagaag 420
ggggaaatgg ggctgggggc cgtccccggg agacaggcgc ccttccgaga gggactggag 480
cag                                     483

```

&lt;210&gt; 492

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 492

```

acctcatctg ctttgctttg gcatgtgagc cttgcctaag ggggcatatc tgggtcccta 60
gaaggcccta gatgtggggc ttctagatta cccctcctc ctgccatacc cgcacatgac 120
aatggaccaa atgtgccaca cgctcgtctt tttttacacc cagtgcctct gactctgtcc 180
ccatgggctg gtctccaaag ctctttccat tgcccaggga gggaagggtc tgagcaataa 240
agtttcttag atcaatcaaa aaaaaa                                     266

```

&lt;210&gt; 493

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 493

```

gccgctcgcg ctaggagagc gggcttcggg cacttgacat ggcggcagtg ggcggcagctg 60

```

```

cagcagcgaa ggggaatggg ggcggcggtg gcagggccgg ggccggggac gccagcgga 120
cgcggaagaa gaagggcccg gggcccctgg ccacggcgta cctgggtcatc tacaatgtgg 180
tgatgacagc cgggtggcctg gttatagcgg ttggtctggt ccgagcatac ctggctaagg 240
gtagctacca tagcctttat tattcaattg aaaagccttt gaaattcttt caaactggag 300
ccttattgga gattttacat tgtgctatag gaattgttcc atcttctgtt gtcctgactt 360
ctttccaggt gatgtcaaga gtttttctaa tatgggcagt aacacatagc gtcaaagagg 420
tacagagtga agacagtgtc ctccctgtttg ttattgcatg gacgatcacg gaaatcatcc 480
gtt 483

```

&lt;210&gt; 494

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 494

```

gtggctatatt tcatggaata tcttttatca gcctttcagt ttttaatttat ttgtgtcttt 60
ggatctaaag tcagtttgtt ttggacaatg tgtagtttga tcatgatttt aaaaaatcta 120
ttctgaagct ggggtggtca cacctgtaat ccagcactt tgggaggatc tcttgagccc 180
aggagttgga gactagcctg gtctacaaag tgagactctg tttctacaaa aaaataaaat 240
aaatagttgg gtgtgggtgt atgcgcttgt ggttccagct acttgggagg atgagggagg 300
a 301

```

&lt;210&gt; 495

&lt;211&gt; 496

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 495

```

cgaagtgaag gctagggggc cgtacgcgcc cgcctgactg tcgccagcag ctccctcggcg 60
gccccaccgc agccgccgct ccctgaggcg cgggaggccc gcgccccgcg gctcgctgtg 120
cgtgggaggg cgcgagcgaa cgcgggcgag gagcggccga gccgctgaag aggagctggg 180
cgccggccgc ccggccgcgc tcggcccgcg gatcgctcc gccgggtctt cgccggcccc 240
ggcccctggc gagatgccgt gtggggagga ttggctcagc caccgcctgg gaatcgtgca 300
gggattcttc gccaaaatg gagttaatcc tgactgggag aagaaaagtaa ttgagtattt 360
taaggaaaag ctgaaggaaa ataatgctcc taagtgggta ccatcactga acgaagttcc 420
ccttcattat ttgaaaccta atagttttgt gaaatttcgt tgcattgattc aggatatgtt 480
tgaccctgag ttttac 496

```

&lt;210&gt; 496

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 496

```

aaactatata aaaagtgatt tgtacagaac tttatttttag ctcttttttta aaaatgattt 60
gcatggtttag aaaacggcga ggacagccag gggagggaag ggcctctagg gaactttgca 120
ctttctatac ctttgtacta tgcactgccc tattgattct acaccaata atgatattac 180
ttgaacccat ctgtaagaaa ctgcttcgga aattcatttg tgtgtatgta aataacacaa 240
catagaaaca ggaaggga aaagtctgca gtaatgcacg tatttttttt ctttctgtt 300
tattttcgggt tttgttttaa gtccttttat ttttaattcc ctttttgttt ttcttttttg 360
gttttggttc cttttgggtt tatgggtgcc ctgatactcc agcagagatc agaaggctac 420
agatccattc tatccatccg ttatgtggct ttgccatccc agcttggagt gtcttttaca 480
agataataac agtt 494

```

&lt;210&gt; 497

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 497

```

gcgcgccgcg gctggcaggg tgtgcgtgag tttgggtggcg gccggctgtg cagagacgcc 60
atgtaccggc tcctgtcagc agtgactgcc cgggctgccg cccccggggg cttggcctca 120
agctgcggac gacgcggggg ccatcagcgc gccgggctgc cgcctctcgg ccacggctgg 180
gtcg                                     184

```

&lt;210&gt; 498

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 498

```

tcttactaca aatggagatg gctattatga aacagcatga gcatgagcct tttatctttt 60
atacttagtg atatactttg cttgaaaatc actcagcaaa gtagttcaca tgatgtgtat 120
catatttgaa gtgtgggtttt tctcaaaatc attgacttta aggagctcat ttctgaacaa 180
aaaggtttgc tctgtggaaa aatcaatcac tgccaggatt ctttcatttc tgtactattt 240
tgtataattg aatttgttca cttctctcac accagcaagt gttttacagg tgccttggat 300
taaaacaaaa ttgattttta aatttttatg taagtcattg tgtctatgat gccactttta 360
aaaggaaaat gcaattgcgt aatggcttat atccttattt aatgtaccta tttgtgttct 420
aataattgtt tgaatgtttt attcagctta aaactttacc atgaagtcac a 471

```

&lt;210&gt; 499

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 499

```

aggtgggaaa agcggaggag gacgcccagg aggaggcggc ggcggcggcc gggaaagtga 60
aggtctcgca aagttcagcg gcggctgcgg gcgccgagcc ccgggctagc ggcagacgag 120
cccgaggggc cgctccgcgg ggcagcgcag ccaggccggc tatgggtccc gggctcccg 180
cgccccccag gtgcccggga cccgccaggc cgggtgcgca gggtcacccc acctccccgc 240
gcgggtcccgg cccctggctc ccagctgccg gcgaccgctg accgagcccc gcgccccagg 300
aggaggaaga aaccaggggc ccgttccctc ccgaggacgg cggcgcttca tcccgagacc 360
cagaggtctc ggctccctcc ggcacccgcc cggcccggct gctcccggct cctcccggcc 420
atggggagct gcgcgcggct gctgctgctc tggggctgca cggtggtggc cgcaagga 478

```

&lt;210&gt; 500

&lt;211&gt; 495

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 500

```

gggggcttct ggcttggtgt ggaccaggag ggggcagaag gcaccctgtc gtggctgggc 60
accgtcttct gcgtgctggc tagcctctgt gtctcgctca acgcatcta caccacgaag 120
gtgctcccgg cggtggaagg cagcatctgg cgcctgactt tctacaacaa cgtcaacgcc 180
tgcgtcctct tcctgcccct gctcctgctg ctccgggagc ttcaggccct gcgtgacttt 240
gccagctggg gcagtggcca cttctggggg atgatgacgc tggggcgccct gtttggtttt 300
gccatcggct acgtgacagg actgcagatc aagttcacca gtccgctgac ccacaatgtg 360
tcgggcacgg ccaaggcctg tgcccagaca gtgctggccg tgctctacta cgaggagacc 420
aagagcttcc tctggtggac gagcaacatg atggtgctgg gcggctcctc cgcttacacc 480
tgggtcaggg gctgg                                     495

```

&lt;210&gt; 501

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 501

```

ctgcggtgtg gttgggtggtg agatgacgac cttagtgtctg gataatggag cttacaacgc 60
caaaatcggt acagccatga aaatgtgtcg gttattccta attgtcagtt ccggtcaaaa 120
acagcacgtc ttaaaacttt tactgccaac cagatagatg aaataaaaga cccttctgga 180
ctctttttaca tctcccttt tcaaaagggc tacttggtga attgggatgt tcagagacaa 240
gtttgggatt accttttttg aaaagaaatg tatcagggtt atttttttaga tactaatatt 300
attatcactg aaccatactt taacttcaact tcaattcaag aatcaatgaa tgaaattcta 360
tttgaagaat accagtttca agcagtatta agagtaaag ctggggctct cagtgcacat 420
aggtatttcc gagataatcc ttccgaatta tgctgtatca ttgttgatag tggatattcc 480
tttacacata tagt 494

```

&lt;210&gt; 502

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 502

```

ttgtataatg ctgaatgtgt ccagagggac aagtttgag aacctcatat tggatatatta 60
aagaaataat aaaataaaaa agcacttttag gttattttat ctttaaccg attgctgcaa 120
tttcttttgt gtgtatatata acatatatat actttccaca aagttttatt ttttgctcag 180
aataaaaagt taaattgagg tgtgaaaaga aaagcactta ccttggtgca atatgtgtag 240
cttgatggtc gttgtcccat gtggccctgg cctggcagcg tttttccgct caatcagccc 300
tgtgctgtga gattgtccat agggaaacac tattatgcat tctcagcaac cgctcaatct 360
atgcaagcct tccctgtgtg ccccagggcg cccctcagg ctctctgaag aactgctgtg 420
ggtcctgttt tctgctgact gttgaggccc tttttcatca cttcttggtc tctcgccat 479

```

&lt;210&gt; 503

&lt;211&gt; 451

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 503

```

ttgtgggccc ggtgggtttc ctaatctggt ttcgtctgcc tggttcatct gtgtgcatg 60
gctccggact cggatccctt ccctgaaggg ccgctcttaa agctgctacc cttagacgct 120
agagaccggg gcaccagcg ctgcccgtg ggcccggcg ccctccacgc cctgggcgcg 180
cgcttgggct cggcagtgaa gatctcgcta cccgacggcg gctcctgcct ctgcactgcc 240
tggcctcggc gggacggagc ggacggcttt gtgcagctgg acccgctgtg cgcgagcccc 300
ggggcgggcg tcggggcgtc gagatcccgg aggagtctca gcctgaatcg cctcctccta 360
gtgccctgtc cgcccctgcg gcgcgtcgcc gtgtggccgg tgttgcgaga gcgggcaggc 420
gcgcccgggtg cccggaatac agccgcggtg c 451

```

&lt;210&gt; 504

&lt;211&gt; 462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 504

```

cagtggggaa ggggagagat gccgaggtgg tcagtatcct gactttcaga ggcctttttt 60
tgtttgtttt aatttttgct agattgatat taaaaactca tgtggaggaa ctcaaggaat 120
gtttagaaga ccaaaagtcc ccaatgacag gaacaaaagc aaccaatttt taactttctc 180
ttctcattcc tgttttcatt gatttcccac atgtagtcct tttgctcagg aagtcttttg 240
ggaaattaag gatctttgaa gctctgaaat aggtgatcag gttagtgggt tctgtcagct 300
gtctaagagg ttggaaaatg aactactcaa gatagtcacg aaaatactga aagtttgatt 360
tttctttcca tattttgaatt aattttttct gtttgactgg aaggggtttt tgtataacta 420
aaacctcagc gcataaagga gatttaaaag gagcacatga tt 462

```

&lt;210&gt; 505

&lt;211&gt; 136

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 505

```
tcgattatat cacacatttc agttgggagg ttgtctcaac ctgtgaccac catctgagtt 60
agctggcaga cttctaggag gtcctgtctg aggtagaatc agaaatggct tccctccttc 120
tcccataaaa aaaaaa 136
```

&lt;210&gt; 506

&lt;211&gt; 466

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 506

```
ggggtacaga gacagcagcc tgcggagcgt tctaggcagg acagggcagc aaacctgaca 60
tgcggagctg ggggcagggg taatggggcc agggggtaat ggcagggtgag gccatggcct 120
agaggggttc catgcttggg gcaggggagg agaggcccag gtgtggctgc agtggcagca 180
ggagtcagtg tggctgtgcc cagtgggatg ttgtcagaga atggacctgg ctgctgggaa 240
aggtgattgt gtttgtctga gccacactgg actcttctct gaccagcaag cacattctgg 300
agatgcgggg cagagacgag gcctccgtga gaacctttga ggtgtgaggg ccttgatctg 360
gggtgcagcc tccagctttc tgcttacaga gcaggacctg caggagctcg ctgactgcct 420
gcacagtgga aggaagacct gtttctttta ctttccttga ggagaa 466
```

&lt;210&gt; 507

&lt;211&gt; 101

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 507

```
atgatttaat tttttaact gtagcaattg gatagataat tttatttgaa attttacaca 60
ctgaaagctc taaataaaca gatacattca cattcaaaaa a 101
```

&lt;210&gt; 508

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 508

```
gacaatgcaa gtaacctcaa atgagagtgt ggaaaggcgg gaaagcagcc agagcttcat 60
tgttatgaaa aaagagtgaa atgtgctctg ttgaagagtt gaagaatgaa caaaggatat 120
ttagtttgaa tggaaactca gtaatgagaa atgagaatgg ttgagttctt aaaagaagca 180
agtaaagaag aggatttgtg ggctactatt ctcatcagtg gaatctcatw ccacccttgc 240
ct 242
```

&lt;210&gt; 509

&lt;211&gt; 101

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 509

```
cctttgctcc ctttttccaa tttcttattg catatctttc tgtattacaa caaaatgata 60
tgcaataaga aattggaaaa agggagcaaa ggcgaagggg y 101
```

&lt;210&gt; 510

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 510  
gcagggttcgg gaccatgagt tggattcctt ttaagattgg gcagcccaag aaacagattg 60  
tgcccaaaac agtggagaga gactttgaaa gggagtattg aaaacttcag caccatgtca 120  
aaatctgccg tgaagatatc cttggactta ctctccaatc ccctctgtga gcaagaccag 180  
gaccttctga acatggtgac ggccctggac acggccatga agcggatgga tgccttcaat 240  
caggaaaagg tgaaccagat ccagaagact gtgatcgagc ccttaaaaaa gttcggcagt 300  
gtcttcccga gcctcaacat ggctgtgaag aggcgggaac aggccttgca ggactacagg 360  
aggctgcagg ccaaggtgga gaagtatgag gaaaaggaga agacggggcc agtgctggcc 420  
aagctccacc aggcacgaga ggagctgcgg cctgtgcggg a 461

<210> 511  
<211> 461  
<212> DNA  
<213> Homo sapiens

<400> 511  
ggctttctga tatttctaaa attgacctgg aatcaaccat tgacatgtcc tgtgctaaat 60  
atgaattcac tgatgccctg ctgtgccatg atgatgagct ggaagggcgc cggattgcct 120  
tcatcctgta cctggttcct ccctgggaca ggagcatggg tggtagcctg gacctgtaca 180  
gcattgatga acactttcag ccgaagcaga ttgtcaagtc tcttatccct tcgtggaaca 240  
aactggtttt ctttgaagta tctcctgtgt cctttcacca ggtgtctgaa gtgctgtctg 300  
aagaaaagtc acgtttgtct ataagtggct ggtttcatgg tccatcattg actcggcctc 360  
ccaactactt tgaaccccc atacctcgga gccctcacat cccacaagat catgagattt 420  
tgtatgattg gatcaaccct acttatctgg acatggatta c 461

<210> 512  
<211> 686  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 604, 649, 664  
<223> n = A,T,C or G

<400> 512  
actgacctga aggagacctt agagtccctt ccctttttga gtttgaatca tagccttgat 60  
gtgggtctctt gttttatgtc cttgttccta atgtaaaagt gcttaactgc ttcttggttg 120  
tattgggtag cattgggata agattttaac tgggtattct tgaattgctt ttacaataaa 180  
ccaattttat aatctttaaa tttatcaact ttttacattt gtgttatttt cagtcagggc 240  
ttotttagatc tacttatggt tgatggagca cattgatttg gagtttcaga tcttccaaag 300  
cactattttgt tgtaataaact tttctaaatg tagtgccctt aaaggaaaaa tgaacacagg 360  
gaagtgactt tgctacaaaat aatggttgctg tggttaagtat tcatattaaa tacatgcctt 420  
ctatatggaa catggcagaa agactgaaaa ataacagtaa ttaattgtgt aattcagaat 480  
tcataccaat cagtgttgaa actcaaacat tgcaaaaagt ggtggcaata ttcagtgcct 540  
aacacttttc tagcgttggt acctcgccgc gaccacgctg gaattccgga agggcctgtc 600  
ctangatcca gtgtggtgga attctgcaga tatccagcac agtggcggnc gctcgagtct 660  
aaanggcccg ttttaaccgc tgatca 686

<210> 513  
<211> 429  
<212> DNA  
<213> Homo sapiens

<400> 513  
catgaacgac accgtaacta tccgcactag aaagttcatg accaaccgac tacttcagag 60  
gaaacaaatg gtcattgatg tccttcaccc cgggaaggcg acagtgccta agacagaaat 120  
tcgggaaaaa ctagccaaaa tgtacaagac cacaccgatg gtcattcttg tatttgattt 180



```

cagaactcat tttggtggtg gcaagacaac tggctttggc atgatttatg attccctgga 240
ttatgcaaag aaaaatgaac ccaaaccatag acttgcaaga catggcctgt atgagaagaa 300
aaagacctca agaaagcaac gaaaggaacg caagaacaga atgaagaaag tcagggggac 360
tgcaaaggcc aatgttggtg ctggcaaaaa gccgaaggag taaagggtgct gcaatgatgt 420
tagctgtgg                                     429

```

&lt;210&gt; 514

&lt;211&gt; 346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 27

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 514

```

aaaactttct ctacttattt agttttntcc tctgagttca accgctgctg gattcgtttg 60
gcataacttt gtgccatgga gttaatgata gataggatga agtaacacac catgacaacg 120
accaactttt caaacatcca ggacaaccag ttttctccct gtggtgtgcc catttcgctt 180
ttgtggtgaa gcttctgccg ttgagcctcc aggtactoct gaaatggctt ctgcagagat 240
ggacctatgc cggggacagc actggaagca ggggtacagta gcccaaagaa aaagacacat 300
ttgggaagaa aagcaggaaa aacgttaaa gaaatgtact taccac                      346

```

&lt;210&gt; 515

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 515

```

ctgaccagga ctgtgaagat gcggttccgc tgcgaagatg gggagacatt ttccaggaac 60
gtcatgatga tccagtcctg caaatgcaac tacaactgcc cgcattgcaa tgaagcagcg 120
tttcccttct acaggctgtt caatgacatt cacaatttta gggactaaat gctacctggg 180
tttccagggc acacctagac aaacaaggga gaagagtgtc agaatcagaa tcatggagaa 240
aatgggcggg ggtggtgtgg gtgatggaac tcattgtaga aaggaagcct tgctcattct 300
tgaggagcat taaggatatt cgaaactgcc aagggtgtct gtgcggatgg acactaatgc 360
agccacgatt ggagaatact ttgcttcata gtattggagc acatgttact gcttcatttt 420
ggagcttggt gagttgatga ctttctgttt tctgtttgta aattatttgc taagcatatt 480
ttctctaggc ttttttccct ttgggggttct acagtctgta aagagataat aagattagtt 540
ggacagttt                                     549

```

&lt;210&gt; 516

&lt;211&gt; 382

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 516

```

ccgctcgtca gactccagca gccaaagatg tgaagcagat cgagagcaag actgcttttc 60
aggaagcctt ggacgctgca ggtgataaac ttgtagtagt tgacttctca gccacgtggg 120
gtgggccttg caaatgatc aagcctttct ttcattccct ctctgaaaag tattccaacg 180
tgatactcct tgaagtagat gtggatgact gtcaggatgt tgccctcagag tgtgaagtca 240
aatgcatgcc aacattccag ttttttaaga agggacaaaa ggtgggtgaa ttttctggag 300
ccaataagga aaagcttgaa gccaccatta atgaattagt ctaatcatgt tttctgaaaa 360
tataaccagc cattggctat tt                                     382

```

&lt;210&gt; 517

&lt;211&gt; 323

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 26

<223> n = A,T,C or G

<400> 517

```
acgagcgtag gacgatgctt ctcttntgtc agcctgcaac tgagtcagga ttgaatactt 60
ggaccccagg tctggagatt gggatactgt aatgcttctt tgttattata acataaaagc 120
accactgttc tgttcatttc cttagctgttc taattaagaa aactattaag atgagcaacc 180
acatttagaa atgtttattg acaggctctt tcaaataatg cttttctaata taatagccaa 240
agatttcata tctaactttg taaccagaat tatacagtaa gttgacacca cttagattta 300
aaggcagaca gttttgcttt agt 323
```

<210> 518

<211> 605

<212> DNA

<213> Homo sapiens

<400> 518

```
ctggataccg aggctggggc cccacactgt ggaacaaacc cacagcttgc tcaggatcca 60
tcccagaatc agcagacatc aaatccaacg cacagttcag aagatgtgaa gccaaaaacc 120
ctcccgtctg ataaaagcat taaccatcag atcgagtctc ccagtgaag gcggaagtct 180
ataagtggaa agaagctgtg ctcttcctgt gggcttcctt tgggtaaagg agctgcaatg 240
atcatcgaga ccctcaatct ctattttcac atccagtgtt tcagggtgtg aatttgtaaa 300
ggccagcttg gagatgcagt gagtgggacg gatgttagga ttcgaaatgg tctcctgaac 360
tgtaatgatt gctacatgcg atccagaagt gccgggcagc ctacaacatt gtgacacggc 420
tttcaagctt ccggatcact caccatttct ttactgagag tgtcccctgg caactgctta 480
acaaaatccc aagctcaggg gcttctcagc atttacctaa tttctgaaag gctcttctga 540
aagggtggtat ctgttctttc gtagcacagt gtttatgttt ttcctgttta ttggtttggt 600
ttttt 605
```

<210> 519

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 48, 77, 99, 103, 137, 140, 171, 249, 298, 318, 320, 409, 437

<223> n = A,T,C or G

<400> 519

```
ctgctggtca tgncccttggc agtcttttgt gcaaaataag gcatattnga gctccacatt 60
aaccttgccg caggcgnceta ctgtctctgc atgtctgtanc agngcacgtc ctccctcccc 120
ttggtggtgt agcctgngan aggctgcca tacttatcca cacaccagca naagccccgc 180
ttcctgcctt tggaaggcg acactgcttt ttcttataaa atcccttctt gtcacagttg 240
ggaatgtgna caccctggg actcagcaca ttgaggaact tcaagtgatt cagtgtgnct 300
tccatttctc tacggcangn accatattct gtctcccgct tggactcgga ggagaagttc 360
tggttatctg tgctctgaga ctctagtagc actttgtagc gctggctgnc tttagcatgc 420
cctttcttga tgatgantat ctttgaatgg aggggggtgga ac 462
```

<210> 520

<211> 565

<212> DNA

<213> Homo sapiens

&lt;400&gt; 520

```

actcgttaata aatatgcac cggaaacaag ataaaaggct acacctcgtc aggcaccta 60
caaaaatgtc tcaagtttta tatactctgc agcattttctg tgcgggggca gaaggggctg 120
ttgtgtatatt tctgaagtgc tgtgacaaaa ggtcctttca catttctttg gagcattttt 180
gaaattgctt aactataatt aaacaactta agaaaagtaa caccaagctt taaagccatt 240
tttgctttgc tgtcattggg ccttatccaa tacagatcaa catatcatcc agcacagcca 300
agcaccactt gaggccaagc agccttgtgg gacatgggcc ctgtcagagc aggccctact 360
ttcagttaaa tactttggag agtccaggat tctgtctctc tccctcaaca agattaatgc 420
cataagggaa gttgcaagcg tgtagaaac atttttaacc tgaaaagtaa gtgaacagaa 480
atattttttt ttccgagacc tctgctatgc accataatat taccatatca ggggtttttg 540
cttcaaaagt gaaaaacaga ttggt

```

565

&lt;210&gt; 521

&lt;211&gt; 127

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 521

```

acatggctga cgtcacctgc cagtgcacaaa tcaaaaaaga aagaaagaaa aaccccaaag 60
aaagaggatt ttccagtggg gaacatgggtg ggctgattag gcttctatta gattacattc 120
atttcac

```

127

&lt;210&gt; 522

&lt;211&gt; 642

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 26, 448

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 522

```

actatgtttc gtaaatataa taggtntggc ccagaagacc cactcaattg cttttgagat 60
taaaaaaaaa aaaaaaaaaa aaagaaaaat gcaagtttct ttcaaaataa agagacattt 120
ttcctagttt caggaatccc ccaaatcact tcctcattgg cttagtttaa agccaggaga 180
ctgataaaag ggctcagggt ttgttcttta attcattaac taaacattct gctttttatta 240
cagttaaatg gttcaagatg taacaactag ttttaaagggt atttgctcat tggctctggct 300
tagagacagg aagacatatg agcaataaaa aaaagattct tttgcattta ccaatttagc 360
aaaaatttat taaaactgaa taaagtgtgt ttcttaagtg cttgaaagac gtaaaccaaa 420
gtgcacttta tctcatttat cttatggngg aaacacagga acaaattctc taagagactg 480
tgtttcttta gttgagaaga aacttcattg agtagctgtg atatgttcga tactaaggaa 540
aaactaaaca gatcaccttt gacatgcgtt gtagagtggg aataagagag ggctttttat 600
tttttcgttc atacgagtat tgatgaagat gatactaaat gc

```

642

&lt;210&gt; 523

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 523

```

ctgaaggagc tgatccagaa ggagctcacc attggctcga agctgcagga tgctgaaatt 60
gcaaggctga tggaagactt ggaccggaac aaggaccagg aggtgaactt ccaggagtat 120
gtcaccttcc tgggggacct ggctttgatc tacaatgaag ccctcaaggg ctgaaaataa 180
ataggggaaga tggggacacc ctctgggggt cctctctgag tcaaattcag tgggtgggtaa 240
ttgt

```

244

<210> 524  
<211> 407  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 27, 28, 29  
<223> n = A,T,C or G

<400> 524  
acgtagtggt tgatgtcacc caccctnnng ctggggccga ggatgctctc attgtgcaact 60  
gcgtagatga ctctggccac tggggcagag gtggtttatt tacagctctg gaaaagcgat 120  
ccgctgagcc aagaaaaata tatgagctgg ctgggaaaaat gaaagacctg agtttgggag 180  
gtgtcctttt atttcctggt gatgataaag aatcaagaaa caaagggcaa gatttggttg 240  
ccttgattgt ggctcagcat cgtgatcgtt ccaatgtcct gtctggcatt aagatggcag 300  
ccctagaaga gggcctgaag aagatatatt tagcagcaaa aaagaagaaa gcaagtgttc 360  
atcttcacag tattggacat gccacgaaa gttttaactg gtatgggt 407

<210> 525  
<211> 276  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 26  
<223> n = A,T,C or G

<400> 525  
acacaggagg caacgtgttt cacatnatag acttcacttc caactccttg gaatgttcat 60  
ttctttggct tacaggagag actagacagg aaggccaggc aatgcttagg caactaaaat 120  
gaggttgggg gtaatgctaa cgtcaccctc acaggggatg ccacggggac tgttattcgc 180  
aagctggttt tctagacctg ttagctggaa gcatgggtgag caccatttct ggacgctcag 240  
gccgtgtcgg gcttcagtca tctccaccac acaggt 276

<210> 526  
<211> 288  
<212> DNA  
<213> Homo sapiens

<400> 526  
acaattaccc accactggat ttgactcaga gaggaccccc agagggtgtc tccatcttcc 60  
ctatttatatt tcagcccttg agggcttcat tgtagatcaa agccaaggcc ccaggaagg 120  
tgacatactc ctggaagtgc acctcctggt ccttgttccg gtccaagtct tccatcagcc 180  
ttgcaatttc agcatcctgc agcttcgagc caatgggtgag ctccctcttg atcagctcct 240  
tcagctcctt cttgctcagg gtgtgcttgt caccctccct gccggagt 288

<210> 527  
<211> 412  
<212> DNA  
<213> Homo sapiens

<400> 527  
actttgagct tattgttttt attctgtatt aaatatattc agggttttta acactaatca 60  
caaactgaat gacttgactt caaaagcaac aaccttaaag gccgtcattt cattagtatt 120  
cctcattctg catcctggct tgaaaaacag ctctgttgaa tcacagtatc agtatatttc 180  
cacgtaagca cattcggacc atttcctggt tttctcatga gctgtgttca cagacctcag 240

```

cagggcatcg catggaccgc aggagggcag attcggacca ctaggcctga aatgacatth 300
cactaaaagt ctccaaaaca tttctaagac tactaaggcc ttttatgtaa tttctttaaa 360
tgtgtatttc ttaagaattc aaatttgtaa taaaactatt tgtgtaaaaa aa 412

```

&lt;210&gt; 528

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 528

```

aaatgcaaaa agtcaaagta ggtaacaggt tggtaattaa agtgtcagga agactggaag 60
aggcaaaaat caagcagagt tccaataagt gtatgaaaaa aaaaatcata actgaagggt 120
taagaaaaag ccccaaaggc agaatacaca tatgagcagg aggaataaaa agcttttgga 180
tataccaggc agctttctgt acgactcagg ttacacaggt aaattcctca gtttgagttc 240
agaagaatth gaacttattc cagcaaaaata cttcaatctt tttattactg cctcctcccc 300
catcttctth ctgggcaaaag ggatgcttgg attaggtcca aagctcctgg cagggggagg 360
ggccatgtgt cacagcataa cagacggttg caagtgtctt actgagcagg ggtcagggtt 420
gcagcaactc tgataggctc acacaatggc ctccatttth cagccctcc ttggaggccc 480
actgatcag 489

```

&lt;210&gt; 529

&lt;211&gt; 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 25, 26

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 529

```

acttgcctaa agtttttata tctgnntctt ctgctgtaaa tcttcccttc ataaatgaaa 60
attttaataa aatcaactat gtggaaatat ataattaaag gaattcacta actgtgattt 120
tcataattta gggacattct cttctagtaa gcatggtgca ttatttacta gagatataat 180
atgcattaaa acaaaaaaat ttttctatca tcatagaaaa gtttgaggtc caggggataat 240
catctctgga tacattatth cctaccgtcg tggtagacac tgaacacatt tgaggcttat 300
gactgggtct tttacttaca aatattgttt agacacattt tcaaatgtca caccaatcaa 360
taataataag gaatggattt tatctatatt gacagttctt tcaaccttaa gagtgaactg 420
ctacaggtaa gattcaatca catthtttcag gagaaagcta ttgagaccaa tatgcttttg 480
ttatctaaata ggggtggaat gacttataat gctatttact ccaggcaaaag agaaaataca 540
acagacatag gatcttgatt tcaacgtagt tctcctccat gtgcatttct ctgtccgtht 600
aggcaatgcc aactggtcca ccagtgaaca t 631

```

&lt;210&gt; 530

&lt;211&gt; 316

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 24, 26

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 530

```

acacatttaa atgactcacg agantnaagt ttttttcaaa tatattaaga tcacaccacc 60
ttgttgthta tcgaaagata ttcaaggaga aagatctgac tctccaaact gcatctgaga 120
ttgccactth aaacagacct catthcaaac atgcaacaac gccactggta ataaagctth 180
ggaatgggtg ctcatctat taththcact caaacagcat agaaagcaag agaagthggg 240

```

aattttattctt aaaatagaat ggaggttgtc atctacagca gcactcctca ctccctctgtt 300  
gccatttttta gcaagt 316

<210> 531

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 37, 72, 104, 130

<223> n = A,T,C or G

<400> 531

aaagtatcat ttatttgaaa aacatacatt atcatnttgt ttttgatatt tgataatgaa 60  
aaaaatcttt gnttgtttat ttctgaaaaa gaactgtatt tagngattat tttagatagt 120  
gatattatan cattcatctg tgtgtaaatt atttcatata gggaagagtt ctgatctgta 180  
cctatggttc ttattgaaaa caacattgga tgtgcatttc tgtgatgtta tgaatacatt 240  
tctactttat tttgaaacat ttgccaaact aaatactgta acactgtata acattt 296

<210> 532

<211> 266

<212> DNA

<213> Homo sapiens

<400> 532

acatatgcac caaattccat tttagaagtt tccatatcat tttcatagaa aacaaagttt 60  
gaaaacaagt aacattttaa cacagcacgg tattctacca caactgaaac ttttttcttc 120  
ttcttcttta caggactcaa caaaatctaa aaatgaacta tgctgtagat ttacctcatg 180  
caaagatctt tatgttatct ctgaaaatga aaaggatggc cttttaagca ctttttactg 240  
ttttatacta ttatggcaac ttgtgt 266

<210> 533

<211> 289

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 25

<223> n = A,T,C or G

<400> 533

actcagaagt cactttttaat atcancgaca gaaatatttc actaattcaa ctgaggcaaa 60  
tttcctttct agacaaagga cctagaaatt gagcatgcaa aacatccatc cattcattca 120  
ttcaaataat tagccaattt tacogtcatt taattccacc agaagcaaat actagaatat 180  
ctagaagtag tttgggtaaa gaaacattta ctttttaata ttgtgtaatg tcataaattt 240  
ggggctaaaa taacaccagg tcaaatttga tccctttgta tgtgaggg 289

<210> 534

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 72, 260

<223> n = A,T,C or G

&lt;400&gt; 534

```

aaaataaaaag gttcttttaca agatgatacc ttaattacac tcccgcaaca cagccattat 60
tttattgtctt anctccagtt atctgtatct tatgtaatgt aattgacagg atggctgctg 120
cagaatgctg gttgacacag ggattattat actgctatct ttccctgaat ttttttcctt 180
tgaattccaa ctgtggacct tttatatgtg ccttcacttt agctgtttgc cttaatctct 240
acagccttgc tctccggggn ggtaataaaa atgcaacact tggcattttt atg 293

```

&lt;210&gt; 535

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

```

acttgaacac tttaaagagaa aaactctaaa taaagtcata gaggggatgg tagagatgac 60
cacagaaaat gaccacggag agtattatga agattgcaag attagacatt gatgatgtaa 120
attactccct ttctagataa aataatccat agatgtttat gaatcatatt tgtatgatta 180
ttgctgttac tattatcttg acacattatt tattattatt gttgtcacta ttattaccat 240
taagatagca ggcgtaaaac tgtactgggt ccttcagtag tgagtatttc tcatagtga 300
gctttattta tctccaggat gtttttgtgg ctgtatttga ttgatatgtg cttcttctga 360
ttcttgctaa ttccaacca tattgaataa atgtgatcaa gacaaaaa 408

```

&lt;210&gt; 536

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

```

acctctcatc aaggctctgc ctacaggcac attgtgatgt atctctgcac tgatcaccta 60
ggtcattgtaa cttttttctta ggctctacct acgatggcat tgtgacataa ctctgcacta 120
atcatccacg tgatgtaact cttgtctagg atgtgcctaa attaactttt tgacgtaacc 180
ctgt 184

```

&lt;210&gt; 537

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 25

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 537

```

ccacagtgtg atcatatagc atctntaaca tttcatctag gattatctag tatagatctt 60
actatatttg gggctatgtt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc ccagcaagc cattcctcct tcctgttctg 240
atattactat tcttttttac attgtgctaa ggaggacaaa aggtgagaga tgaaaataaa 300
gccttgccct t 311

```

&lt;210&gt; 538

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

```

aaaataaaaa agcaaaaact cttgtggtac ctagtcagat ggtagacgag ctgtctgctg 60

```

```

ccgcaggagc acctctatac aggacttaga agtagtatgt tattcctggt taagcaggca 120
ttgctttgcc ctggagcagc tattttaagc catctcagat tctgtctaaa ggggtttttt 180
gggaagacgt tttctttatc gccctgagaa gatctacccc agggagaatc tgagacatct 240
tgcctacttt tctttattag ctttctcctc attcatttct tttatacctt tccttttttg 300
gg                                                    302

```

&lt;210&gt; 539

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 539

```

actgtttatt tgctccttct cttcatgcct gtggctggat gtcccacaac actataagaa 60
atataagtca agccctttgt gtttaagcaag aactacagac tccatctttt caccctaaatc 120
atgaatgacc aataaaaagc aagttattcc agaggaagaa gcagcccttg aaatgttaag 180
gcttaggctt gaaagggtgaa gagcaggaat tctctctttc aaatcctaga gcataaaccc 240
atgtgtggcc aagtgagatc agccctcaag ggcacatgcc aagggcagag cagcccatgt 300
agacagcttc ggagggcatg ggggtgtagg gagttcgggg tagctcctca ttaactatct 360
gttgggtgag taaaggggtg aggctcagtg gcaggt                    396

```

&lt;210&gt; 540

&lt;211&gt; 634

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 25, 29

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 540

```

ccaaaaacaa gatgaccaga tttgntttna gcctgatgac cctacaggtc gtgctatgat 60
atggagtccat catgggtaaa gcaggaagag agtgggaaag agaaccaccc cactctgtct 120
tcataatttgc atttcatgtt taacctccgg ctggaaatag aaagcattcc cttagagatg 180
aggataaaag aaagtttcag attcaacagg gggaagaaaa tggagattta atcctaaaac 240
tgtgacttgg ggaggtcagt catttacagt tagtctgtg tctttcgact tctgtgatta 300
ttaacccac tcactaccct gtttcagatg catttggaat accaaagatt aaatccttga 360
cataagatct catttgcaga aagcagatta aagaccatca gaaggaaatt atttaggttg 420
taatgcacag gcaactgtga gaaactgttg tgccaaaaat agaattcctt ctagtttttc 480
ttgttctcat ttgaaaggag aaaattccac tttgttttagc atttcaagct tttatgtatc 540
catcccatct aaaaactctt caaactccac ttgttcagtc tgaaatgcag ctccctgtcc 600
aagtgccttg gagaactcac agcagcacgc ctta                    634

```

&lt;210&gt; 541

&lt;211&gt; 221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 541

```

cacacaagca gcagagacca tgggaaccct ctcagcccct ccctgcacac agcgcacaa 60
atggaagggg ctctgtctca cagcatcaat tttaaaattc tggaacctgc ccacctgtc 120
ccaagtcacg attgaagccg agccaaccaa agtttccgag gggaaggatg ttcttctact 180
tgtccacaat ttgccccaga atcttaccgg ctacatctgg t                    221

```

&lt;210&gt; 542

&lt;211&gt; 287

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 542

```

cctcttctac tatggcagga gatgtggcgt gctgttgcaa agttttcacg tcatcgtttc 60
ctggctagtt catttcatta agtggctaca tcctaacata tgcatttggt caagggtgca 120
gaagaggact gaagattgac tgccaagcta gtttgggtga agttcactcc agcaagtctc 180
aggccacaat ggggtgggtt gggttgggtt ccttttaact ttctttttgt tatttgcttt 240
tctcctccac ctgtgtggta tattttttta gcagaatttt atttttt 287

```

&lt;210&gt; 543

&lt;211&gt; 274

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 543

```

acttgtgaaa cacagctgtt cttctgttct gcagacacgc cttccctca gccacaccca 60
ggcacttaag cacaagcaga gtgcacagct gtccactggg ccattgtggt gtgagcttca 120
gatggtgaag cattctcccc agtgtatgtc ttgtatccga tatctaacgc tttaaattggc 180
tactttgggt tctgtctgta agttaagacc ttggatgtgg tttaattgtt tgcctcaaaa 240
aggaataaaa cttttctgct gataagataa aaaa 274

```

&lt;210&gt; 544

&lt;211&gt; 307

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 544

```

ccagggtggt gtcttattgc accatactcc ttgcttcctg atgctgggca atgaggcaga 60
tagcactggg tgtgagaatg atcaaggatc tggaccccaa agaatagact ggatggaaaag 120
acaaactgca caggcagatg tttgcctcat aatagtcgta agtggagtcc tggaatttgg 180
acaagtgtcg ttgggatata gtcaacttat tctttgagta atgtgactaa aggaaaaaac 240
tttgactttg ccaggcatg aaattcttcc taatgtcaga acagagtgca acccagtcac 300
actgtgg 307

```

&lt;210&gt; 545

&lt;211&gt; 570

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 191

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 545

```

accttagaaa tttgcaacca cctccctgaa agtcttctcc cacgttatta agtgcaatgt 60
ttatggtaaa tgtagaagca tcatgatgag gacgaagaga acgctgtcgt tcaggggagt 120
attttactac aaaattcagt agtgcaaadc ccttcgtata atagcctgca aagaccttca 180
gtgtaactgg ngcaatgaac tcccggataa aatgaagoca tacattctcc agatcaactt 240
gttcatgtg gatatcatca gttgggacat ttccataacc accagatata cggctatcat 300
gatgttttcc ccagagccat ttgccgtaat ttccatttcc ttctaccaat tcatcacagg 360
ctttttcaga aaatatgggg aacaaaaaga catctggaca gggctgttca actatatttt 420
cagtgaataat ctttgaataa tcacgggttta tatacttttc cttccagtcc acaggatttt 480
caaaaatctg ccagagggtca ttgttataat ggggaagtatt gtaattagca gtggataata 540
gccttccaaa ttcatgtcta ttagaaatgt 570

```

&lt;210&gt; 546

&lt;211&gt; 589

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 565

<223> n = A,T,C or G

<400> 546

```
aaaaatacttt tttaccaaag gtgctatttc tctgtaaaac actttttttt ggcaagttga 60
ctttattctt caattattat cattatatta ttgtttttta atatttttatt ttcttgacta 120
ggtattaagc ttttgtaatt atttttcagt agtcccacca cttcataggt ggaaggagtt 180
tggggttctt cctgggtgcag gggctgaaat aaccagatg cccccaccct gccacatact 240
agatgcagcc catagttggc cccctagct tccagcagtc cactatctgc cagaggagca 300
agggtgcctt agaccgaagc caggggaaga agcatcttca taaaaaactt tcaagatcca 360
aacattaatt tgttttttatt tattctgaga agttgaggca aatcagtatt cccaaggatg 420
gcgacaaggg cagccaagca gggcttagga tatcccagcc taccaatatg ctcatctgac 480
taactaggag ggtgagttgg ccctgtctct tcttttttct ggacctcagt ttccttcagt 540
ggagcttggt aaaaatgcac taccntttga tttgataagg tataaatct 589
```

<210> 547

<211> 293

<212> DNA

<213> Homo sapiens

<400> 547

```
actcctatta ttgactgtag tcaatcaaac ataaaaaggt gaaagtaaaa ttttaattttt 60
tacccttatt ttactgacca atatggaagt tcttggtatc ttttaaggctg accttcctgg 120
tattgtgtaa tgattgaatg tatctaaact gtaataattt gaaactgaca aacataacct 180
tctcagactt acaaaaactat gttctttcta aagatacaga tttttattat tttatttttga 240
ctaggaagga tttataaata aatgtaatga aaaatctttg atcttaataa agt 293
```

<210> 548

<211> 98

<212> DNA

<213> Homo sapiens

<400> 548

```
aaacaaaggt tgagatgtaa aaggatttaa attgatgttg ctggactgtc atagaaatta 60
cacccaaaga ggtatttatc tttacttttt tttgtaca 98
```

<210> 549

<211> 121

<212> DNA

<213> Homo sapiens

<400> 549

```
acatgcatat ttcaaagacc tgттаатggc gtccactttg gattcttaca tgaaacgatt 60
cagtgcacat tgtaagccta aggaccacgc aaaaggggtt cccacatatt aagtattcag 120
t 121
```

<210> 550

<211> 509

<212> DNA

<213> Homo sapiens

<400> 550

```
acaatagtat acattttata atgatgaact tataatgatt aagggacatt tctataaaaa 60
tactacaata gtttttatgca caacttccca ttaaaaatga gattttcttat ttgtttgtct 120
```

```

gtttttactc tgggagtaat acttttttaa ttacctttac atatatagtc actggcatac 180
tgagaatata caatgatcct ggaaattgca gtaacaaaag cacacaacga ttatagtaac 240
tataagatac aataaaaacaa ataaatgtga aagtagattc atgaaaatgt attcctttta 300
aatattgttt tcctacaggc ctattttaaca agatgtttca ttttactgta tttttttag 360
ttaatatata tgttgctcta atcagattgc ttaaaagcat ttttattata tttatgttgt 420
tgaactaata tatgaaataa gtaaattgtag ctcccacaag gtaaacttca ttggtaat 480
tgcactgttc tgattatgta agcatttgt 509

```

&lt;210&gt; 551

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 551

```

accatggtta tatgattaat cttgggacaa agaattttat agaaattttt aaacatctgg 60
aaaagaagct taagttttat catccttttt tttctcgtga attcttaaaag gattatgctt 120
taatgctgtt atctatctta ttgttcttga aaatacctgc attttttggg atcatgttca 180
accaacatca ttatgaaatt aattagattc ccatggccat aaaatggctt taaagaatat 240
atatatatatt ttaaagtagc ttgagaagca aattggcagg taatatattca tacctaaatt 300
aagactctga cttggattgt gaattataat gatatgcccc ttttcttata aaaacaaaaa 360
aaaaataaat gaaacacagt gaattttag agtgggggta tttgacatat tttacagggg 420
ggagtgc 427

```

&lt;210&gt; 552

&lt;211&gt; 340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 552

```

cctcaaggcg gtccaattat ccacttgtag attctacaga aagagtgttt caaaactgct 60
ctgtcaagag aaatgggtcca ccgtgtgtgt ggaatgcagc catcacacat tagtttctga 120
gattgcttct gtcttggttt tatggggaga tatttccatt tctagcatag gcttcaaggc 180
gctctaaata tccgcttgga aatactacaa aaacagtgtt tcaaaactgc tgtatccaaa 240
ggaaggtgcc actcgctgag ttgaatgcac acatcacaag gaagtttctg agaattcttc 300
tgtctagatt catacgaaga aatcccgttt ccaacgaagg 340

```

&lt;210&gt; 553

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 553

```

acttgagctg tgaggatcatc ggaatcccga cacctgtcct catctggaac aaggtaaaaa 60
ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
ttcagacccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctctc 180
taagtaagga agatgctgga gaatatgagt gccatgcatc caattcccaa ggacaggctt 240
cagcatcagc aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaaagggt 300
aaggtgccga gctataaacc tccagaatat tattagtctg catgggttaa agtagtcatg 360
gataactaca ttacctgttc ttgcctaata agtttctttt aatccaatcc actaacactt 420
tagttatatt cactggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480
tctacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
atacttttt 549

```

&lt;210&gt; 554

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 554

```

acctaataat atgttaacat aaacataaca acacacatat tattttttcta ccccttggca 60
actgaaaatg aagttaccat tcctaggcca aattttttaga caaagctttc taaaaccatc 120
tttataaagt aaattcagat atgcttacaa taaaaagaca taaaagattc atcctgagat 180
gaattctgag tcaataacta aaaaccattt ctaccagtgc atcactacca tgtaatccat 240
tctacgcaag ctctacaaat attgagtcaa atcctgtctg tcagaaaatg aagacccaat 300
aagtttgccg aagtattcag t                                     321

```

&lt;210&gt; 555

&lt;211&gt; 322

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

```

ctggatcccg agaatactgg aacaatagag ctcgacctta tctcttggct ctgttttctca 60
gtactttgaa gttataacta atctgcctga agacttctca tgatggaaaa tcagccaagg 120
actaagcttc catagaaata cactttgtat ctggacctca aaattatggg aacattttact 180
taaacggatg atcatagctg aaaataatga tactgtcaat ttgagatagc agaagtttca 240
cacatcaaag taaaagattt gcatatcatt atactaaatg caaatgagtc gcttaaccct 300
tgacaaggtc aaagaaaact tt                                     322

```

&lt;210&gt; 556

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

```

aaaaaatatg tatctaagaa tgttctaggg cactctggga acctataaag gcaggatattt 60
cgggccctcc tcttcaggaa tcttcctgaa gacatggccc agtcgaaggc ccaggatggc 120
ttttgctgcg gccccgtggg gtaggagggg cagagagaca gggagagtca gcctccacat 180
tcagaggcat cacaagtaat ggcacaattc ttcggatgac tgcagaaaat agtggttttgt 240
agttcaacaa ctcaagacga agcttatttc tgaggataag ctcttt                                     286

```

&lt;210&gt; 557

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

```

acagaagatg aataataatg aaaaactgtg attttttgac tatcacatac attgtgttaa 60
aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120
tgttcagggt taaataactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180
gaagtgtata caagtgcatt gcaaatgagc tctttaaaat ttaaagtcca tttccccctt 240
agccaagcat atgtctacat ttatgatttc tttctcttat tttaaagtct cttctgggtt 300
agttttttta aaagtttcat catggctgtc atottggaat ctagcctcca gctcaaagct 360
gagacttcac gcatacatat tctcctttct ggggtgcatt tcacctagtt tctccaagta 420
ttcagagtta aatagcacia cttcttttat atgttccct                                     459

```

&lt;210&gt; 558

&lt;211&gt; 303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 40, 83, 106, 108, 122, 128, 269

&lt;223&gt; n = A,T,C or G

<400> 558  
aaaaaataaa aaacaagaca acaatttagt agaagtaccn ctgggagggga ggggagggga 60  
aaaaaggata tacaggggca ggngtattct ctgtacagag gtgcananaa aatttcacat 120  
anctttanag aatgccttgt ggaaaaaaaa aaataggccc caatacttgt tactgccctt 180  
tatcaaaact gtgtgcatga cctgcacaaa taaaatcaca aaacagtgtt gccacattct 240  
tcaaggaaac aaagcaaaat ttagggggnt tcttttccct ctccttggtt aaagtcattt 300  
ttt 303

<210> 559  
<211> 232  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 212  
<223> n = A,T,C or G

<400> 559  
aaagcattta ttaagaattt actcaggcat gatggcccat acttgtaatc ccagctattg 60  
ggaaggatga gatgggagga tggcttgagg ccagagggtt gagaccgacc agccagggca 120  
acacagtgag accccttctc aaaaaaaaaa aaaaaaaaaa agagagtgtg tgattagaag 180  
ctaaatagga aagttttgag cttcaagtca gngaggagta aaaaagattt tt 232

<210> 560  
<211> 336  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 15, 16, 290, 300, 305, 324  
<223> n = A,T,C or G

<400> 560  
ctctgcaaaa ataannataa aaaaataaat aaaattttta aaataataaa attcactata 60  
tacacatata aagaaataaa aagaagtctc agttgcagct atttgtcaaa attaatatcc 120  
atttcttttt atatacggtg aatattgctc aattatagat ctggattttg aaccacttaa 180  
tgaagcggca acaccagggtg ttttgagggtg ttggcattct tcgctgattt ggctgttccc 240  
aatgtttaca ttattttaatc ttgcaaaaat ggttctgtgc acttggatgn gaaatgctgn 300  
ccagntttat tttttttatg ttgntatcct tggatg 336

<210> 561  
<211> 636  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 591  
<223> n = A,T,C or G

<400> 561  
acattatggg ttttattgct ttcttttatg gtagacctgt taatggggaa aaaatacatc 60  
aaatcaaata gaatcttata tctgtatgtt aaaatagagc acttacctga agtcagtggc 120  
ctggatcata gccctggatc atttccagat ctgtcctgtg ctgtgtgacc ttggacaagg 180  
cgcttcatct ctctgggcct ctatttctcc atttgtaaaa caagtggctg cagtagatga 240  
tggctgagag cccttccctg tcccagatgc cttgggtccaa agacccacc cctctgctg 300

```

tcctgccaac gtgttggtgc tataagctgc ttcagatata aaattgggtt atctataatg 360
tttgttcatt taatagcttc taaaaggcct ttttgttata cagtgccttt tttctagttt 420
tatggacttg gttactgtaa taatgtcttg tttttagcca tgtaactaca aacagatatt 480
ctcttgatgt cttagtaaat ttgcatttga tatatcattg atgagatttt gttgttatgt 540
aatattcttt ggctacgcat ctgtccagca tcttattaac cataatactg ngatcattat 600
ttggaaatat gtcctatgga aagaataaaa gcatgt 636

```

&lt;210&gt; 562

&lt;211&gt; 708

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 662, 694, 697

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 562

```

acagtccacc ttttgatata tgccatgcct ttgatcaaag aacaggacat aaaaacaaag 60
tcacaatgac attccatagt aaatttgga tcaagaactcc aaatgcaact tcgggctcgc 120
tggaagaaca ctaaggggca ccaaaccctc tgagggtttta ctttaagggt cgctgtatgt 180
ttgccttgga caaaaaggct acctaccacg tgctatccag taatatactt aaataagcca 240
atacttagat ctactgtaag gcagatgcta attataaggc attaagtaag caaatagtgc 300
cctcagctac tgcagaagaa aagtcccact gaggaaaaga aagtcttggt atttttaaag 360
gcaagttttc aagtgtctct atagttctat cctctaattc cattaaatcc atactaggag 420
cgtcagttag ggttttcata gcttttgga atactttggt ctctgaactg taattagcaa 480
gaagtaaaaa cagaaacgtc aaacgtcaaa tgtttgcttt gttacctgga ggactaaatg 540
tagatgtctt tagtatactt tgtatgttct taatattgga agataatttt gtgaatctgt 600
agattttatt ttttcagtct taccttacia atttcttttc tatgaataat agaggactta 660
cngcactctg ccatttgta atgaaaggaa ggcngangat ttagaaaag 708

```

&lt;210&gt; 563

&lt;211&gt; 290

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 563

```

ccagatgctc atccactttc agactttcat ctcttctgcc atctgccaaa gtcaacagag 60
ctttccggaa gtcaccagat gtttcggaac taatgtcatc tccaagactc ttcttgtata 120
ctgtataata ggcttgagag atatccttca tttgcctgct tgtcctggta gtttaagattt 180
caatcaaggc atcttcgttt gttcccgcgc ccttcatgga tttcttttagc tgctttgcat 240
caaagactgc tgggtggagtc actagggcca ccatgagatg ctcaaagtgg 290

```

&lt;210&gt; 564

&lt;211&gt; 530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 564

```

accaccagat acttaaagct tcaaaaagac tgcccctacc accacaggag gaccagccta 60
accatacgct ccaaaagatg gctgtgatag atcttgtaa gcaattactg agcagatcaa 120
gatctttggg aaggaacact aaagatgttt tgaatgaatt atagtccact ggcatttttag 180
tgtatTTTTT tttcttttta gaaacacaca tttctaaaaa tgtcatgtta cattcctgca 240
tgtccctttt gatagcatta gtggatccat tggatttctt ttttcttttt gtgagacagc 300
ttttagtctt acctgaattt atgtgtgttt ttccgacagt ggttaataat tatattggtg 360
atgtagcagc aattgtgttg gcagggtttt catatattat tagtaattaa cactaactgt 420
tggaactgact tgtgtcgata gcgctcacgc aagcatgggt aacgtcccta aaacccgccg 480
gactttctgt aagaagtgtg gcaagcacca accccataaa gtgacacagt 530

```

<210> 565  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 19, 20  
 <223> n = A,T,C or G

<400> 565  
 ctgcttacgg aagcgcctggn tgactaggat gtgattttatt aacgaccaac ttctgtttatt 60  
 gtgtgttaag tttttcatct gtgcatcaaa tcacaaaaag aataaataga gcttttttcct 120  
 ttatcagtc cttgggcaca gcaggctcctg aacaccctgc tctacaatgt tgcatcaaga 180  
 gttcaaacaa caaaataaaaa aatattaaga ggaaatcccc atcctgtgac ttgagtccct 240  
 taagtctaca ggggctggtg acctcttttt gctaatagga aaatcacatt actacaaaat 300  
 ggggagaaaa ctgtttgcct gtggtagaca cctgcacgca taggattgaa gacagtacag 360  
 gctgctgtac agagaagcgc ctctcacatc tgaactgcat actgagcggg caagtcgggtt 420  
 gtaagttcag taaaaccctc tgatgatgcc 450

<210> 566  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 566  
 acttgagctg tgaggctcatc ggaatcccga cacctgtcct catctggaac aaggtaaaaa 60  
 ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120  
 ttcagacccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcctc 180  
 taagtaagga agatgctgga gaatatgagt gccatgcatc caattcccaa ggacaggctt 240  
 cagcatcagc aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaaagggtg 300  
 aagggtgccga gctataaaacc tccagaatat tattagtctg catgggttaaa agtagtcatg 360  
 gataactaca ttacctgttc ttgcctaata agtttctttt aatccaatcc actaacactt 420  
 tagttatatt cactggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480  
 tctacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaaataa 540  
 atacttttta tcacaaaaaa aaa 563

<210> 567  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 159, 229, 263, 307  
 <223> n = A,T,C or G

<400> 567  
 ccagtgagca aattgaaaac caactgaaag caaatccaaa tgaggaagat ttttaataaag 60  
 gaataccctt ctccatagca ggtgcaatgc tgactgctca aggcgtgcgt gcgcgcgcac 120  
 acacacacac acacacacac atacatactc tcacacacnc atctttccaa ttaaactgca 180  
 ggtagaatga gattttgtgt tattcaaaaa atttgtaagt gatcaaaanc actgctatgg 240  
 aatgcctgtt tatctgcctt tgntctgggt aaaatctcat aaaaatacat tcaacaggaa 300  
 aacatanatt gtatgtgtat aaatatatat gtatatatat atattatata cacatgcaca 360  
 caaatacttt tgttttttga agcataagat agttacataa atactcctat aattgctaaa 420  
 gttt 424

<210> 568  
<211> 392  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 239, 260, 294, 316, 384  
<223> n = A,T,C or G

<400> 568  
actggctcac tcagagagga cgtccttcaa ctatgccatg aaggaggctg ctgcagcggc 60  
tttgaagaag aaaggatggg aggtggtgga gtcggacctc tatgccatga acttcaatcc 120  
catcatttcc agaaaggaca tcacaggtaa actgaaggac cctgcgaact ttcagtatcc 180  
tgccgagtct gttctggctt ataaagaagg ccatctgagc ccagatattg tgggttganc 240  
aaaagaaagc ttggaagccn caagaacctt gtgatattcc agttccccct gcantgggtt 300  
tggaagtcc ctgccntttt gaaagctggt ttgaagcgaa tgttcatagg aaagtttgct 360  
taccacttac cctgcccctg gtangacaaa ag 392

<210> 569  
<211> 559  
<212> DNA  
<213> Homo sapiens

<400> 569  
aaagagattt attaaatcat cttatcacaa agatggaaac atatacaaac tagaaacatg 60  
caaccatcat cttccacagt caagtcacaa tgtcaaatat ttttcttgcc tctgcagatg 120  
aaaagttcag atctttatacc caactactta ctcaccccgga atatttaagt cagtcttcct 180  
gaaagtactc agggtagcaa gtaacaaaat gcaaacgatt atataaagaa agtgcgattt 240  
aaaaggaaac tatgtggcaa gtaccctctt tcccttccca cccccaatt aaaggcaaac 300  
aatggcactt tgctcttgct taacctagat tgtcttcaaa aactattaaa atgtaaaaa 360  
cttaacaaaa aaacaaaaag acgtttaaca gatgtcaaaa agctccttag tgtttgaaaa 420  
taaagtctta aacaaaagac aacataattt atatcaaaaca agtttgaaga gccctgaatt 480  
gcagcattct gtaacataaa caaacaaaaa gctgggtatg gatttattgg caaaggcaga 540  
atttcttcaa gcagggtaa 559

<210> 570  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 570  
agccgccgct ggatgctaag tccgatgtca ccaaccagct thtagatttt cagtggaaac 60  
tggttatggc tgtgagctca gacacttgca gatctcttaa gtatccttac gttgcagtga 120  
tgctaaaagt ggcagatcat tcaggccaag taaagaccaa gtgctttgaa atgacgattc 180  
cacagtttca gaatttctac agacagttca aggaaattgc tgcagttatt gaaacgggtg 240  
gaagacggat tctttggttg ataaattgct atcattctaa agtcatggac ttcacttttcg 300  
gcaacaaaac taaataagga tggaacattt attgaatgaa aaatgcactt ttgtttttcc 360  
atTTTTTT 368

<210> 571  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 571  
acacgattgc tgcttccgct atatttgtga tataggaatt aagaggatac acacgtttgt 60  
ttcttcgtgc ctgttttatg tgcacacatt aggcattgag acttcaagct tttctttttt 120



```

tgtccacgta tctttgggtc tttgataaag aaaagaatcc ctgttcattg taagcacttt 180
tacggggctg gtggggaggg gtgctctgct ggtcttcaat taccaagaat tctccaaaac 240
aattttctgc aggatgattg t                                     261

```

&lt;210&gt; 572

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 572

```

ctctcagctc tcggcgcacg gccagcttc cttcaaaatg tctactgttc acgaaatcct 60
gtgcaagctc agcttggagg gtgatcactc tacaccccca agtgcataat ggtctgtcaa 120
agcctatact aactttgatg ctgagcggga tgctttgaac attgaaacag ccatcaagac 180
caaagggtgtg gatgagggtca ccattgtcaa cattttgacc aaccgcagca atgcacagag 240
acaggatatt gccttcgcct accagagaag gacaaaaaag gaacttgcat cagcactgaa 300
gtcagcctta tctggccacc tggagacggg gattttgggc ctattgaaga cacctgtca 360
gtatgacgct tctgagctaa aagcttccat gaaggggctg ggaaccgacg aggactctct 420
cattgagatc atctgtctca gaaccaacca ggagctgcag gaaattaaca gagtctacaa 480
ggaaatgt                                     488

```

&lt;210&gt; 573

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 21

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 573

```

actttactga aagaacacta ntgttctttc ctttccgttg tgaaaaaagt tgtttctgag 60
gaattgaaac cccagaagat aactacaaca aaaacatgtt aatttttttt taaaaatgat 120
gattcaaagg cagatttgaa gggaagtaat atttaggtgg cagaagaagg caaatgcagc 180
ctctgaaggg aactgttcta attattacct aaaaaataaa gttacacaac tatattcaag 240
gacatgagat aaagcactgc ttgaaaacca gaatgactga acagttaggt gaaaaggaac 300
agctgaaata ggaaggggaa atggactgaa gaataatttg aatcgggaca gtgatccatc 360
agtcctagat gcttctggta tgtaaatatc ttgaatcaca ttgtttcctt tcttctgaaa 420
tctcaaagga gaattctcac agcactacat taagggtgcc attttgtag gattcaaaat 480
ttcaatccag tagccatcag gatcttgaat aaatgccagg cctttcattt taccatcatc 540
aggtttcttc acaaatttga ctccagtctt caaccttttc aagcctgatc atcaggaaca 600
caattccata tgaccgatc                                     619

```

&lt;210&gt; 574

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 574

```

acatccaccc cactatttct tcacataccg aatcaggatt gaaatgtcaa aagatgcact 60
tcctgagaag gcctgtcagt tggacagtcg ctattggaga ataacaaatg ctaaggggtga 120
cgtggaagaa gttcaaggac ctggagtagt tgggtgaattt ccaatcatca gccaggtcg 180
ggtatatgaa tacacaagct gt                                     202

```

&lt;210&gt; 575

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 575

```

ccacagttgt atcatatagc atctctaaca ttctcatctag gattatctag tatagatctt 60
actatatttg ggactatgtt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcct tcctgttctg 240
atattactat tcttttttac attgtgctaa ggaggacaaa agatgagaga tgaaaataaa 300
gctttgcctt t                                     311

```

&lt;210&gt; 576

&lt;211&gt; 134

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 34, 83, 98

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 576

```

ttttttgcat caaaaagctt tatttccatt tggnccaagg cttgttagga tagttaaaaa 60
agctgcctat tggctggagg ganaggctta ggcaaaancc ctattacttt gcaagggggcc 120
cttcaaaagt cgct                                     134

```

&lt;210&gt; 577

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 577

```

ctgatcagtg ggcctccaag gaggggctgt aaaatggagg ccattgtgtg agcctatcag 60
agttgctgca aacctgacct ctgctcagta aagcacttgc aaccgtctgt tatgctgtga 120
cacatggccc ctccccctgc caggagcttt ggacctaatc caagcatccc ttgcccaga 180
aagaagatgg gggaggaggc agtaataaaa agattgaagt attttgctgg aataagttca 240
aattcttctg aactcaaaact gaggaatttc acctgtaaac ctgagtcgta cagaaaagctg 300
cctgggtatat ccaaaaagctt tttattcctc ctgctcatat tgtgattctg cctttgggga 360
cttttcttaa accttcagtt atgatttttt ttccatacac ttatttgaac tctgcttgat 420
ttttgcctct tccagtcttc ctgacacttt aattaccaac ctgttaccta ctttgacttt 480
ttgcattt                                     488

```

&lt;210&gt; 578

&lt;211&gt; 476

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 578

```

accatgcatt aagagcttcc tgattgagat tcagtgcacg agccgtgtct attccatcta 60
cgtccacacc gtctgtgacc cactctttga agctgttggg aaaatattca gcaatgtccg 120
catcaacttg cagaaagaaa tataaatgac atttcaagga tagaagtata cctgattttt 180
ttccttttaa ttttcttgtt gccaatttca agttccaagt tgctaataca gcaacaattt 240
atgaattgaa ttatcttggt tgaaaataaaa aagatcactt tctcagtttt cataagtatt 300
atgtctcttc tgagctatct catctatttt tggcagtcctg aattttttaa acccatttaa 360
atttttttcc ttaccttttt atttgcatgt ggatcaacca tgcgttttatt ggctgagata 420
tgaacatatt gttgaaaggt aatttgagag aaatatgaag aactgaggaa aaaaaa 476

```

&lt;210&gt; 579

&lt;211&gt; 246

&lt;212&gt; DNA

<213> Homo sapiens

<400> 579

```
ctgggtgctca ctgagatggg aggttttcct attttcctgc tacatctgca caagctacat 60
ctagaatgaa gccaccaatt tcaatgtgac caggcaatgg cagccagcac tgccttacac 120
tggttttgatt ctgattccct aattctggcc actgcagggt atgagtaagg gtggggatca 180
gggaggaagt ccagaagcca gtctttgtct ccctttcctg cttatatatta agtgcctatt 240
tacatg                                         246
```

<210> 580

<211> 615

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 59, 69, 83, 103, 587

<223> n = A,T,C or G

<400> 580

```
gtcttcacag taataactaa tgggtgatcc taagggtgaaa ttattttcctt caaaatagnc 60
atgaactgna ttcccaggag ggnacagtc cctacttttg canatgggaa agggaggtgc 120
ccaggtgtgg tcctctagac actggctccg attgctgccc ttgaggatgt agtgggtcatt 180
gcacataaac gtgattttgt cacttacatt cacaggccct gaagaactga actctccatt 240
caccagcaca ggatcaggac agtggcccaa gcggcactca gtagtggtgt tatcccactc 300
cttagaggca ttgcaaaaaa ggttcttctt tcctaccagg tggtagccct tgatacaaac 360
gtaagtcccc agaatctgtc cttccacctc ctttgcgaca aatatgctat tgtccactgg 420
aggaagctct ggacagtgtc catctgaagc agaaactcgc cagcgaacca taagacagca 480
cgcacaccaa aaaaacatct ggtgatcaaa gtcctctccc caggctggaa ttcaccacgc 540
tcagacacct tacctgtctc tgtccctcca gagttagggc ttcccancaa ggaactgggc 600
ttaactgact tccaa                                         615
```

<210> 581

<211> 576

<212> DNA

<213> Homo sapiens

<400> 581

```
actcttggtg agttctgtag agccttctga tgtctctaaa gcactaccga ttctttggag 60
ttgtcacatc agataagaca tatctctaata tccatccata aatccagttc tactatggct 120
gagttctggg caaagaaaga aagtttagaa gctgagacac aaaggggttg gagctgatga 180
aactcacaaa tgatggtagg aagaagctct cgacaatacc cgttggcaag gagtctgcct 240
ccatgctgca gtgttcgagt ggattgtagg tgcaagatgg aaaggattgt aggtgcaagc 300
tgtccagaga aaagagtcct tgttccagcc ctattctgcc actcctgaca ggggtgacct 360
gggtatttgc aatattcctt tgggcctctg cttctctcac ctaaaaaaag agaattagat 420
tatattgggt gttctcagca agagaaggag tatgtgtcca atgctgcctt cccatgaatc 480
tgtctcccag ttatgaatca gtgggcagga taaactgaaa actcccattt acgtgtctga 540
atcgagttag acaaaaatttt agtccaaata acaagt                                         576
```

<210> 582

<211> 939

<212> DNA

<213> Homo sapiens

<400> 582

```
atgagcatcg gcctcctgtg ctgtgcagcc ttgtctctcc tgtgggcagg tccagtgaat 60
gctggtgtca ctcagacccc aaaattccag gtccctgaaga caggacagag catgacactg 120
cagtgtgccc aggatatgaa ccatgaatac atgtccctgg atcgacaaga cccaggcatg 180
```

```

gggctgagggc tgattcatta ctgagttggg gctgggtatca ctgaccaagg agaagtcccc 240
aatggctaca atgtctccag atcaaccaca gaggatttcc cgctcagggt gctgtcgggt 300
gctccctccc agacatctgt gtacttctgt gccagcagtt actcagtcgg ggagggcggg 360
gattcacccc tccactttgg gaatgggacc aggcctcactg tgacagagga cctgaacaag 420
gtgttccccc ccgaggtcgc tgtgtttgag ccatcagaag cagagatctc ccacacccaa 480
aaggccacac tgggtgtgcct ggccacaggc ttcttccctg accacgtgga gctgagctgg 540
tgggtgaatg ggaaggaggt gcacagtggg gtcagcacgg acccgagcc cctcaaggag 600
cagcccggcc tcaatgactc cagatactgc ctgagcagcc gcctgagggg ctcggccacc 660
ttctggcaga acccccgcaa ccacttccgc tgtcaagtcc agttctacgg gctctcggag 720
aatgacgagt ggacccagga tagggccaaa cccgtcaccc agatcgtcag cgccgaggcc 780
tggggtagag cagactgtgg ctttacctcg gtgtccacc agcaaggggt cctgtctgcc 840
accatcctct atgagatcct gctaggggag gccaccctgt atgctgtgct ggtcagcgcc 900
cttgtgttga tggccatggt caagagaaa gattttctga 939

```

&lt;210&gt; 583

&lt;211&gt; 828

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

```

atgaactatt ctccaggctt agtatctctg atactcttac tgcttggaag aaccctgtga 60
aattcagtga cccagatgga agggccagtg actctctcag aagaggcctt cctgactata 120
aactgcacgt acacagccac aggataccct tcccttttct ggtatgtcca atatcctgga 180
gaaggtctac agctcctcct gaaagccacg aaggctgatg acaagggag caacaaaggt 240
tttgaagcca cataccgtaa agaaaccact tctttccact tggagaaagg ctgagttcaa 300
gtgtcagact cagcgggtga cttctgtgct ccgaaccctt ctcttcaggg cggatctgaa 360
aagctggtct ttggaaaggg aacgaaactg acagtaaacc catatatcca gaaccctgac 420
cctgccgtgt accagctgag agactctaaa tccagtgaca agtctgtctg cctattcacc 480
gattttgatt ctcaacaaaa tgtgtcacaa agtaaggatt ctgatgtgta tatcacagac 540
aaaactgtgc tagacatgag gtctatggac ttcaagagca acagtgtgtg ggcctggagc 600
aacaactctg actttgcatg tgcaaacgcc ttcaacaaca gcattattcc agaagacacc 660
ttcttcccca gccagaaaag ttctgtgat gtcaagctgg tcgagaaaag ctttgaaaca 720
gatacgaacc taaactttca aaacctgtca gtgattgggt tccgaatcct cctcctgaaa 780
gtggccgggt ttaatctgct catgacgctg cggctgtggg ccagctga 828

```

&lt;210&gt; 584

&lt;211&gt; 275

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

```

Met Asn Tyr Ser Pro Gly Leu Val Ser Leu Ile Leu Leu Leu Leu Gly
          5                      10                      15

Arg Thr Arg Gly Asn Ser Val Thr Gln Met Glu Gly Pro Val Thr Leu
          20                      25                      30

Ser Glu Glu Ala Phe Leu Thr Ile Asn Cys Thr Tyr Thr Ala Thr Gly
          35                      40                      45

Tyr Pro Ser Leu Phe Trp Tyr Val Gln Tyr Pro Gly Glu Gly Leu Gln
          50                      55                      60

Leu Leu Leu Lys Ala Thr Lys Ala Asp Asp Lys Gly Ser Asn Lys Gly
          65                      70                      75                      80

Phe Glu Ala Thr Tyr Arg Lys Glu Thr Thr Ser Phe His Leu Glu Lys

```

			85					90					95				
Gly	Ser	Val	Gln	Val	Ser	Asp	Ser	Ala	Val	Tyr	Phe	Cys	Ala	Pro	Asn		
			100					105					110				
Pro	Ser	Leu	Gln	Gly	Gly	Ser	Glu	Lys	Leu	Val	Phe	Gly	Lys	Gly	Thr		
			115					120					125				
Lys	Leu	Thr	Val	Asn	Pro	Tyr	Ile	Gln	Asn	Pro	Asp	Pro	Ala	Val	Tyr		
			130					135					140				
Gln	Leu	Arg	Asp	Ser	Lys	Ser	Ser	Asp	Lys	Ser	Val	Cys	Leu	Phe	Thr		
			145					150					155				
Asp	Phe	Asp	Ser	Gln	Thr	Asn	Val	Ser	Gln	Ser	Lys	Asp	Ser	Asp	Val		
			165					170					175				
Tyr	Ile	Thr	Asp	Lys	Thr	Val	Leu	Asp	Met	Arg	Ser	Met	Asp	Phe	Lys		
			180					185					190				
Ser	Asn	Ser	Ala	Val	Ala	Trp	Ser	Asn	Lys	Ser	Asp	Phe	Ala	Cys	Ala		
			195					200					205				
Asn	Ala	Phe	Asn	Asn	Ser	Ile	Ile	Pro	Glu	Asp	Thr	Phe	Phe	Pro	Ser		
			210					215					220				
Pro	Glu	Ser	Ser	Cys	Asp	Val	Lys	Leu	Val	Glu	Lys	Ser	Phe	Glu	Thr		
			225					230					235				
Asp	Thr	Asn	Leu	Asn	Phe	Gln	Asn	Leu	Ser	Val	Ile	Gly	Phe	Arg	Ile		
			245					250					255				
Leu	Leu	Leu	Lys	Val	Ala	Gly	Phe	Asn	Leu	Leu	Met	Thr	Leu	Arg	Leu		
			260					265					270				
Trp	Ser	Ser															
			275														

```
<210> 585
<211> 312
<212> PRT
<213> Homo sapiens
```

```

<400> 585
Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala
          5                      10                      15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu
          20                      25                      30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His
          35                      40                      45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
          50                      55                      60

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro

```

65		70		75		80
Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg						
		85		90		95
Leu Leu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser						
		100		105		110
Ser Tyr Ser Val Gly Glu Gly Gly Asp Ser Pro Leu His Phe Gly Asn						
		115		120		125
Gly Thr Arg Leu Thr Val Thr Glu Asp Leu Asn Lys Val Phe Pro Pro						
		130		135		140
Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln						
		145		150		155
Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Phe Pro Asp His Val						
		165		170		175
Glu Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser						
		180		185		190
Thr Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg						
		195		200		205
Tyr Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn						
		210		215		220
Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu						
		225		230		235
Asn Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val						
		245		250		255
Ser Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Val Ser						
		260		265		270
Tyr Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu						
		275		280		285
Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met						
		290		295		300
Ala Met Val Lys Arg Lys Asp Phe						
		305		310		

&lt;210&gt; 586

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

Glu Val Glu Val Ser Arg Asp His Ala Ser Leu Gly Asp Ser Glu Thr
5 10 15

Leu Ser Gln Thr Glu Leu Arg Lys Lys Glu Arg Lys Lys Lys Arg Glu  
                     20                    25                    30  
 Arg Lys Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile  
                     35                    40                    45  
 Phe Trp Ile Leu Leu Phe Ser His His Trp Ile Gln Glu Ser Leu Leu  
                     50                    55                    60  
 Cys Pro Pro Ser Pro Lys Glu Val Thr Cys Arg Glu Met Leu Thr Gly  
                     65                    70                    75                    80  
 Gly Cys Leu Pro Trp Ala Thr Arg Ser His Leu Gly Arg Arg Lys Cys  
                     85                    90                    95

Ser

<210> 587  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 587  
 Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile Phe Trp  
   1                    5                    10                    15

<210> 588  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 588  
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 ggtggagagc tgctgctgga gcaggaccgc gcccgcgagg acctccaggc ccggctgcgg 180  
 gagacgtggg ccctggcccc ggatgctgcc ctcgctcctgg accagctgcg agcctgtcaa 240  
 gctgagctgt catctcgagt gaggcaggac cagccccctg gtacagccac tctgggccta 300  
 gccgtcccc cagctgactc caagggctgg caagcgtccc tgcaggccat gagcctcccc 360  
 gagctctcgg gagccctgga ggaccgtgtc cgtgagatgg ggcaagcact gtgcttagtg 420  
 acccagagcc tggagaagct gcagggtctg aacgggaaga agtggcggga gacctagcct 480  
 gcggggccgaa tctgacgttg ggtgattggt ccaccctgaa gctgtgtgcc 530

<210> 589  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens

<400> 589  
 gaattcggca cgaggccagt tcagtctgca agcgccagct cctctcatgg ccggcttacc 60  
 caccgccttg ccaatgccca ggggcaaacc tcataccacc acttccagaa cactgatcat 120  
 gacaaccaac aatcaggtac gtggtcctct ggcacccttc ccgctgggtg tccctgggaa 180  
 cagcatccga gctgtgatat gcactagagg agattgatgg tcctttgaat tagaagagta 240  
 actttttgag tatttggcca ttggtgtgtt gttctaggaa atcctctctt ttttgtggtg 300  
 ttgaggtccc ccatgtatag tttcagcagc gaggacactg tggttcttg 349

<210> 590  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<400> 590  
 gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcatcccc ggcgaaacgtc 60  
 tgtgtaactt ggaggagggc agcccgggca gcggcaccta caccgcccac ggctacatct 120  
 tttcgtcgct tgccggctgt ctgatgaaga gcagcgagaa tggcgcgctt ccagtgggtgt 180  
 ctgtagtgag agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgta 240  
 aggtctctag catcaattca cgctttgccca aagtacacat cctgtatgtg ggggtccatgc 300  
 ctcttaagaa ctcttttcga ggaactatcc gcaaggaaga tgtccgagca actgaaaaag 360  
 acaaggttga aatttataag agtttccgcc caggtgacat tgtcttggcc aaagtgatct 420  
 ccttaggtga tgcacagtcc aactacctgc taaccaccgc cgagaacgag ctgggagtggt 480  
 tggtagccca cagtgaagtca ggtatccag 509

<210> 591  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<400> 591  
 gaattcggca cgagggtgcat gttgtgtgag gatccccggg ccgcccgcgtc gctcggggccc 60  
 cgccatggcc gtcaccatca cgctcaaaac gctgcagcag cagaccttca agatccgcat 120  
 ggagcctgac gagacggtga aggtgctaaa ggagaagata gaagctgaga agggctgtga 180  
 tgcccttcccc gtggctggac agaaaactcat ctatgccggc aagatcctga gtgacgatgt 240  
 ccctatcagg gactatcgca tcgatgagaa gaactttgtg gtcgtcatgg tgaccaagac 300  
 caaagccggc cagggtacct cagcaccccc agaggcctca cccacagctg cccagagtc 360  
 ctctacatcc ttcccgcctg cccccacctc aggcattgtcc catccccac ctgccgccag 420  
 agaggacaag agcccatcag aggaatccgc cccacgcagc tccccagagt ctgtgtcagg 480  
 ctcttgttcc ctcttcaggt aacaaccggg 510

<210> 592  
 <211> 432  
 <212> DNA  
 <213> Homo sapiens

<400> 592  
 gacatgtaat tcttatttat ttttcaccct caacaaggaa gaaaggctct tccctcaatt 60  
 ctgctcttcc aataacttgag gataggcacc cctaaccctc ctctctccag ggaggcctca 120  
 gcatcagtgct ctgtggacgt agtctctgaa gagtgttca gctgatgggg aaggagaaac 180  
 tcaagacaga gatcctccta gggatggcgt cactttcctg ccaactttct cgttgccctct 240  
 ccttgaaagc agaagaagtg ccagccctca gcttccgtca gatcttgggc tccatggggc 300  
 ttgtacaagt ccatggccct ctgggtccag tccaggacgg ccaggcggaa ttgggagcag 360  
 cccttatcca aggccacctc agccaccttt ttgattattt tggaaccaat cccttgacct 420  
 cgatattccg gc 432

<210> 593  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<400> 593  
 gaattcggca cgaggcgagc agttgtcgct actggagaag tccctgggac tgagtaagggt 60  
 gaataaatac agtgctcagg gcgagcgaca gattccagtt cttcagacaa acaatgggtcc 120  
 aagtctaaca ggattgacta ctatagcagc tcatctagtc aagcaagcca acaaagaata 180  
 tttgctgggg agtactgcag aagaaaaagc aatcgttcag cagtgggttag aatacagggt 240  
 cactcaagta gatgggcact ccagtaaaaa tgacatccac acactgttga aggatcttaa 300



```

ttcatatctt gaagataaag tctaccttac aggggtataac tttacattag cagatatact 360
attgtactat ggacttcatc gctttatagt tgacctgaca gttcaagaaa aggagaaata 420
tcttaatgta tctcgctggg tttgtcacat tcagcattat ccaggcatca ggcaacatct 480
gtctagtgtt ggtcttcatc aagaacagac tatatactaa ttcccctaga aagctgtcca 540
tgccatacag aagatctatt aaaaaatgtt ttaaaatgga aaatgtactc ttagaaccac 600
aggacttaat ggta 614

```

<210> 594

<211> 336

<212> DNA

<213> Homo sapiens

<400> 594

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gaattcggca cgagggggcac aacagagccg ctcccctctc ctgccccgc caccgggacg 60
gagagcgccc gccggtgcat ttccggcgac acctcgagc cattcctgcg gcttgcgcg 120
ccttgtagac agccggggcc ttcgtgagaa cgggtgcaggc ctggggtagt ctctgtctg 180
gacagagaag agaaaaatgc aggacactgg ctcaagagtg cctttgcatt ggtttggtt 240
tggtaccca gcactggttg cttctggttg gaatatgtgc tattgaaaag caagcaagcg 300
tgccgtccct ggctgcaggg ctgctctttt ggaagt 336

```

<210> 595

<211> 487

<212> DNA

<213> Homo sapiens

<400> 595

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gaattcggca cgaggtgact gtgggaaact cggaaacaag ctcacatctt cctgtgggaa 60
accttctagc aacaggatga gtctgcagtg gactgcagtt gccaccttcc tctatgcgga 120
ggtctttgtt gtgttgcttc tctgcattcc cttcatttct cctaaaagat ggcagaagat 180
tttcaagtcc cggctggttg agttgttagt gtccataggg aacaccttct ttgtggttct 240
cattgtcatc cttgtgctgt tggtcacga tgccgtgcgc gaaattcgga agtatgatga 300
tgtacgggaa aaggtgaacc tccagaacaa tcccggggcc atggagcact tccacatgaa 360
gcttttccgt gccagagga atctctacat tgctggcttt tccttgctgc tgccttctct 420
gcttagacgc ctggtgactc tcatttcgca gcaggccacg ctgctggcct ccaatgaagc 480
ctttaaa 487

```

<210> 596

<211> 418

<212> DNA

<213> Homo sapiens

<400> 596

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gaattcggca cgaggccgtg acctgctagc tgagcagcgc ttcccggggc gcgtgctgcc 60
ctcggaattg gacctgctgt tgcacatgaa caacgcgcgc tacctgcgcg aggccgactt 120
tgcgcgctc gcgcacctga cccgctgcgg ggtgctcggg gcgctgaggg agttgcgggc 180
gcacacggtg ctggcgccct cgtgcgcgcg ccaccgccgc tcgctgcgcc tgctggagcc 240
cttcgaggtg cgcacccgcc tgctgggctg ggacgaccgc gcgttctacc tggaggcgcg 300
ctttgtcagc ctgcgggacg gtttcgtgtg cgcgctgctg cgcttccggc agcacctgct 360
gggcacctca cccgagcgcg tcgtgcagca cctgtgccaa cgcaagggtg aacccccct 418

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<210> 597

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 205

<223> n = A,T,C or G

<400> 597

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gaattcggca cgaggctggc tcccacccgt gagttggctc aacagattga ggaagagacc 60
atcaagtttg ggaaaccgct aggtatccgc actgtggctg tcattggtgg catctccaga 120
gaagaccagg gcttcaggct gcgcatgggt tgtgagattg tgattgctcc cctgggcgtt 180
tgattgatgt gctggaaaac ccgtnccttg tgcttgacct gctgtacctg tgtgggtctg 240
gatgaggcag ataggatgat tgacatgggc tttgagccag atgtccagaa gatcctggag 300
cacatgcctt gtcagcaacc agaagcccaa acacggatga agcttgagga cccctgagaa 360
aatgcttgg ccaacttttg agtcgggaaa acattaagta cccgcccaaa cagtcatt 418
```

<210> 598

<211> 266

<212> DNA

<213> Homo sapiens

<400> 598

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gaattcggca cgagggttc tcaactgagt cctactttta tgcctgcct gtggtgagca 60
caaagtgtga gcacatcaat ccccatTTTT tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagt aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaagggaaga 240
gagatgcctt ttcctattca accttt 266
```

<210> 599

<211> 235

<212> DNA

<213> Homo sapiens

<400> 599

```
gaattcggca cgagggtcc tgcagccttt tcgctgggac tgcgcgacac cgccccccga 60
ccgggtgccc gctgtgtgcc aggcggggtg ctgggcacgg tcccgcgagt gccctataag 120
gactgccagg caataatgaa ggttctttta ctgaaggatg cgaagggaaga tgactgtggc 180
caggatccgt atatcaggga attaggatta tatggacttg aagccacttt gatcc 235
```

<210> 600

<211> 386

<212> DNA

<213> Homo sapiens

<400> 600

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gaattcggca cgagggttcc tcgcgggccc ccgggtgctg gtcaccgggg caggcaaagg 60
tatagggcgc ggcacggtcc aggcgctgca cgcgacgggc gcgcgggtgg tggctgtgag 120
ccggactcag gcgatcttg acagccttgt ccgcgagtgc ccggggatag aaccctgtgtg 180
cgtggacctg ggtgactggg aggccaccga gcgggcgctt gggcagcgtg ggccccgtgg 240
acctgctggg gaacaacgcc cgtgtgcgc ctgctgcagc ccttcctgga ggtcaccaag 300
gaggcctttg acagatcctt tgaggatgaac ctgcgtgcgg catccagtgt cacagattgt 360
ggcaggggct taatacccg gagtcc 386
```

<210> 601

<211> 406

<212> DNA

<213> Homo sapiens

<400> 601

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gaattcggca cgaggggctg ctggctggct aagtccctcc cgtcccggc tctcgctca 60
ctaggagcgg ctctcggtgc agcgggacag ggcgaagcgg cctgcgcccc cggagcgcgc 120
gacactgccc ggaaggagcc gccacccttg cccctcagc tgccactcgt tgatttccag 180
cggcctccgc gcgcgcacga tgccctcggc caccagccac agcgggagcg gcagcaagtc 240
```

```
gtccggaccg ccaccgccgt cgggttcctc cgggagttag gcggccgcgg gagccggggc 300
cgccgcgccg gcttctagca ccccgcaacc ggcaaccggc ctgtccagac cgaggccatg 360
aagcagattc tcgggggtgat cgacaagaaa cttcggaaacc tggaga 406
```

<210> 602

<211> 365

<212> DNA

<213> Homo sapiens

<400> 602

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gaattcggca cgaggctcgc ctacttagga gcggctctcg gtgcagcggg acagggcgaa 60
gcggcctgcg cccacggagc gcgcgacact gcccggaaag gaccgccacc cttgccccct 120
cagctgcccc ctctgtgatt ccagcggcct ccgcgcgcgc acgatgccct cgcccaccag 180
ccacagcggg agcggcagca agtcgtccgg accgccaccg ccgtcgggtt cctccgggag 240
tgaggcggcc gcgggagccg gggccgcgcg ccggcttcta gcaccccgca accggcaccg 300
gcgctgtcca gaccgaggcc atgaagcaga ttctcggggg gatcgacaag aaacttcgga 360
acctg 365
```

<210> 603

<211> 376

<212> DNA

<213> Homo sapiens

<400> 603

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gaattcggca cgaggctttg gccactcaga gccccggggc cgcggtcgtc gtacgcctga 60
aggcgggtcg tgccggcggc cgctctagtc tccgcctccg ctccaggccgg tcctccgggg 120
cttctcaatg gtttcccggt ggctctcaa tggttttccc ggccggccctt gcgcgcagcg 180
caggagactt ccggagcttg gtgacgtcac agagcgagct tttctaccca aatacgcggc 240
gggggaatag gctcgagggc ggggagcagt gacaattgct aggcggagac agtgaggga 300
agagagacct tataaaggat caggactggc gggagggtatt taactgaaag gaatatctgc 360
ttcactgttg caacca 376
```

<210> 604

<211> 385

<212> DNA

<213> Homo sapiens

<400> 604

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gaattcggca cgaggcttgg gtccgtcgtc gcttcgggtg ccctgtcggg cttcccagca 60
gcggcctagc gggaaaagta aaagatgtct gaatatattc gggtaaccga agatgagaac 120
gatgagccca ttgaaatacc atcgggaagc gatgggacgg tgctgctctc cacggttaca 180
gccagtttc caggggcgtg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240
ggtgtccggc tggtagaagg aattctgcat gcccagatg ctggctgggg aaatctggtg 300
tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360
gcagtgaagg tgaaaagagc agtcc 385
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<210> 605

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 375

<223> n = A,T,C or G

<400> 605

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gaattcggca cgaggggggag cggagagcgg accccagaga gccctgagca gccccaccgc 60
```

```

cgccgccggc ctagttacca tcacaccccg ggaggagccg cagctgccgc agccggcccc 120
agtcaccatc accgcaacca tgagcagcga ggccgagacc cagcagccgc ccgccgcccc 180
ccccgccgcc cccgccctca gcgccgccga caccaagccc ggcactacgg gcagcggcgc 240
aaggagcggg ggcccgggcg gcctcacatt cggcggggcc ttgccggcgg ggacaaagaa 300
agggcattcg caacgaaggg ttttgggaaa caagtaaaat gggttcaatt gtaagggaac 360
cggatttttg ttttnattca accagggaaa ttgac 395

```

<210> 606

<211> 282

<212> DNA

<213> Homo sapiens

<400> 606

```

gaattcggca cgagggcagg ggtggtcctg gctggcattg cctgagccgg cagtgatgaa 60
gtggggagct tgcccttgac aggtgggggc tggctggggc cttaatgtga aaagacagtg 120
gcaggcagct ggagtagagc gagcccagca gccctaaaag gctgccttca tggccatcta 180
gccccagttc agggcagcat ccatagccca caagccagcg tgggtggggc ggggggtggtc 240
ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

```

<210> 607

<211> 615

<212> DNA

<213> Homo sapiens

<400> 607

```

gaattcggca cgagggccggt cggcctgggc aacctgcgct gaagatgccg ggaaaactcc 60
gtagtgcgc tggtttggaa tcagacaccg caatgaaaaa aggggagaca ctgcgaaagc 120
aaaccgagga gaaagagaaa aaagagaagc caaaatctga taagactgaa gagatagcag 180
aagaggaaga aactgttttc cccaaagcta aacaagttaa aaagaaagca gagccttctg 240
aagttgacat gaattctcct aaatccaaaa aggcaaaaaa gaaagaggag ccattctcaa 300
atgacatttc tcctaaaacc aaaagtgtga gaaagaaaaa ggagcccatt gaaaagaaag 360
tggtttcttc taaaaccaaa aaagtgacaa aaaatgagga gccttctgag gaagaaatag 420
atgctcctaa gcccaagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480
aaagccccaa actgaagaat ggatttcctc atcctgaacc ggactgtaac ccagtgaaag 540
ctgccagtga agaaagtaac agtgagatag agcaggaaat cctgtggaac aaaaagaagg 600
cgctttctct atttt 615

```

<210> 608

<211> 316

<212> DNA

<213> Homo sapiens

<400> 608

```

gaattcggca cgaggagaaa gggaaaaaag gcgtaaagac agacatgaag caagtgggtt 60
tgcaaggaga ccagatccag attctgatga agatgaagat tatgagcgag agaggaggaa 120
aagaagtatg ggcggagctg ccattgcccc acccacttct ctggtagaga aagacaaaga 180
gttaccocga gattttcctt atgaagaagg actcaagacc tcgatcacag tctttccaag 240
cagcccttct tccccaggt gtaccgaagg aaccaagaac agaccocgaga atcttccacc 300
cggaccctta gcaaac 316

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<210> 609

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 267

<223> n = A,T,C or G

<400> 609

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gaattcggca cgaggggtgaa accaacttat tgggctcaat cccatttggc cacaggatac 60
tgtacgtatc ttccttttcca gagatttgat atcaccacaga caccgccagc atacataaac 120
gtgttaccag gtttgcccca gtacaccagc atatatatac ccttgccagc cttttctcct 180
gaatatcagc taccaagatc agtaccagtg gtgccgtcct ttgtagccaa tgacagagca 240
gaaaaaaatg ctggctgcct attttgnggg gcattcattt tgaaatggct tgagaaatgg 300
ttggctgggt caccacagaat tggccttctt gaaaaccaca agaatccctt tggaaggggg 360
cttctttttg gggaaaataa tcttggtaaa aag 393
```

<210> 610

<211> 454

<212> DNA

<213> Homo sapiens

<400> 610

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gaattcggca cgaggcagca atgcggtaga tatgacgtaa acaaattata attaagctag 60
tggtactca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120
tttttcatga tgtctaactc tactgaattt attcaatgga gataacagaa agatgattat 180
atatgattaa attacttcca gtattagcag atgcttattt aaataacttg ttgttctttc 240
tgcaattcca catagaatta aggcaatagt ttaaaagaaa atttaaaaag taactttttc 300
agcattttta tgtagacctg tgaattctaa cacatttgca gtgtagccat cctaatagact 360
aaccagactt gaacaaaatc caacttgcaa aaacgatgca atataaatac caatcaccaa 420
taataggtag tctcactttt aaaaacctgt gtct 454
```

<210> 611

<211> 613

<212> DNA

<213> Homo sapiens

<400> 611

```
gaattcggca cgaggtgcgc tcttcgttgc ccagtttccg ctcagtgggc gcgtctccgc 60
ccccaccca ccagtcccgc tgcattctcg gccgggctct aggcgccatg gctccccgcg 120
ggaggaagcg taaggctgag gccgcggtgg tcgccgtagc cgagaagcga gagaagctgg 180
cgaacggcgg ggaggggaatg gaggaggcga cgttggttat cgagcattgc actagctgac 240
gcgtctatgg gcgcaacgcc gcggccctga gccaggcgct gcgcctggag gccccagagc 300
ttccagtaaa ggtgaacccg acgaagcccc ggaggggcag cttcgagggtg acgctgctgc 360
gccgggacgg cagcagtgcg gagctctgga ctgggattaa gaagggggccc ccacgcaaac 420
tcaaattccc tgagcctcaa gaggtggtgg aagagttgaa gaagtacctg tcgtagggag 480
atttgggtag aagccctcat gctgagcttt gtgtccctgg tgatgttgga acattaatga 540
tggaacatgg ccaaacttca gtcattgatcc tgaagccatg gtttcttccc tgccagaaat 600
gaaggttcat tat 613
```

<210> 612

<211> 313

<212> DNA

<213> Homo sapiens

<400> 612

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gaattcggca cgaggcgaga acgggcacgg ggagcagcag cctcaaccgc cggcgacgca 60
gcagcaacag cccaacagc agcgcggggc cgccaaggag gccgcgggga agagcagcgg 120
ccccacctcg ctgttcgcgg tgacggtggc gccgcccggg gcgaggcagg gccagcagca 180
ggcgggaggt aagaagaagg cggaaggcgg cggaggcggc ggtcgccccg gggctccggc 240
ggcgggggac ggcaaaacag aacagaaaagg cggagataaa aagaggggtg ttaaaagacc 300
accacaagat cat 313
```

<210> 613

<211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 613  
 gaattcggca cgaggcctgg ccggggagac gagttgcatg tgttggttca gctggcgata 60  
 gcggcgggag cggagccggc ggggcctgtg cgaccgcctg ggtttgtgaa atggctgctg 120  
 acattttctga atccagcggg gctgactgca aaggagaccc aaggaaacagt gccaaagttag 180  
 atgccgatta ccacttctga gtccttttatt gtggagtctg ttcattacca acagagtact 240  
 gtgaatatat gcctgatgtt gctaaatgta gacaatggtt agagaagaat tttccaaatg 300  
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&lt;210&gt; 617

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 617

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&lt;210&gt; 618

&lt;211&gt; 456

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 618

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&lt;210&gt; 619

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 619

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&lt;210&gt; 620

&lt;211&gt; 205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 620

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ggcaacctcc	tcgtggcctg	tgtgt				205

&lt;210&gt; 621

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 621

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cgg						483

&lt;210&gt; 622

&lt;211&gt; 562

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 622

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&lt;210&gt; 623

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

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&lt;210&gt; 624

&lt;211&gt; 521

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 624

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&lt;210&gt; 625

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 625

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aggacaaatt cacca 375

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&lt;210&gt; 626

&lt;211&gt; 628

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 626

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ctgaagaaac caaaacttat ggcacgggag taaattctca ttaaaataaa tgtaattaaa 600
aggaaaaaaa aaaaaaaaaa aactcgag 628

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&lt;210&gt; 627

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 627

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acgcagacag aagaaggaaa cttaagatgt gcaaggagat ttaatgattt caaagaaaat 420

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&lt;210&gt; 628

&lt;211&gt; 625

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 628

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&lt;210&gt; 629

&lt;211&gt; 545

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 629

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ctgct      545

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&lt;210&gt; 630

&lt;211&gt; 605

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 630

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 <212> DNA  
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<211> 615

<212> DNA

<213> Homo sapiens

<400> 635

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gttggggagc gagtgccata cgtcatcatt tatgggaccc cgggagtacc acttatccag 120
cttgtaaggc gcccagtga agtcctgcag gacccaactc tgagactgaa tgctacttac 180
tatattacca agcaaactct tccacccttg gcaagaatct tctcacttat tgggtattgat 240
gtcttcagct ggtatcatga attaccaagg atccataaag ctaccagctc ctgcggaagt 300
gaacctgaag ggcggaaagg cactatttca caatatttta ctaccttaca ctgtcctgtg 360
tgtgatgacc taactcagca tggcatctgt agtaaagtgc ggagccaacc tcagcatgtt 420
gcagtcatcc tcaaccaaga aatccgggag ttggaacgct aacaggagca acttgtaaag 480
atatgcaaga actgtacagg ttgctttgat cgacacatcc catgtgtttc tctgaactgc 540
ccagtaacttt tcaaaactct ccgagtaaag agagaattgt ccaaggcacc atatcttcgg 600
cagttattaa accag 615

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<210> 636

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 12

<223> n = A,T,C or G

<400> 636

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gaattcggca cnaggccaaa acctgttttg gaagcatatt acagaaatga tttcaagtac 60
cctgtattct ggatgctaaa aaacaaaaac aaacaaaaaa aaaaaaaca aaaaacaaaa 120
ccagaatcag gtaaaacagc tatgtgatta aaatatatta attcttcagc aattaccggg 180
ttttctaaat tgaatcatgc atctatattat aattctaat attttgtaa agaagacaaa 240
attatgaatc ttaagtattt gctccatctt tttctctgta atgggtggaga ggctgcccat 300
aattcatctc cacatggagc caagttaaag gtttctagtt cacattttgt acttctgtca 360
tgcttatatt aaactccctg agtgatgggt aagaaatcaa acattgcctc agtgggtatca 420
agagaacttt ggtgggtggt tcttcagaat catgaagttc ttttgccaga taaatatttt 480
gatattattt tcttttttaa tata 504

```

<210> 637

<211> 449

<212> DNA

<213> Homo sapiens

<400> 637

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gaattcggca cgaggtttaa accctgcgtg gcaatccctg acgcaccgcc gtgatgcca 60
gggaagacag ggcgacctgg aagtccaact acttccttaa gatcatccaa ctattggatg 120
attatccgaa atgtttcatt gtgggagcag acaatgtggg ctccaagcag atgcagcaga 180
tccgcatgtc ccttcgcggg aaggctgtgg tgctgatggg caagaacacc atgatgcgca 240
aggccatccg agggcacctg gaaaacaacc cagctctgga gaaactgctg cctcatatcc 300
gggggaatgt gggctttgtg ttcaccaagg aggacctac tgagatcagg gacatgttgc 360
tgggcaataa ggtgccagct gctgccgtgc tgggtgccatt gcccctgtg aagtcactgt 420
gccagcccag aacactggtc tcgggcccgc 449

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<210> 638  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 638  
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 gcaccccgagg tttccacagc tgtagttgag ccctacaact ccacccacac 120  
 accctggagc actctgattg tgcccttcag gtagacaatg aggccatcta tgacatctgt 180  
 cgtagaaacc tcgatatcga gcgcccaccc taccactaacc ttaaccgcct tattagccag 240  
 attgtgtcct ccactactgc ttccctgaga tttgatggag ccctgaatgt tgacctgaca 300  
 gaattccaga ccaacctggt gccctacccc cgcatccact tccctctggc cacatatgcc 360  
 cctgtcatct ctgtcgagaa agcctacat gaacagcttt ctgtagcaga gatcaccaat 420  
 gcttgctttg agccagccaa ccagatggtg aaatgtgacc ctgcgcatgg taaatacatg 480  
 gcttgctgcc tgttgtagcc tggtagcgtg gttcccaaag atgt 524

<210> 639  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 639  
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 caaatgttga gcacatcaat ccccattttg tagacgaaga gacagagttg agtgacttgc 120  
 ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180  
 attgaaattc agtcgattcc cctatggact cagtataaga tctcatcagt tgaaggaga 240  
 gagatgcctt ttccatttca gcctttttgc aatccttcca tctagaggag atgtatctta 300  
 taatatcctc aaaggcactc tgttgctaag agcagccttg atgaggtccc atatagctca 360  
 ttggaagcag agctagtctt ggaaactgaa aatgttgagc cagagtctgc ccattccttt 420  
 agctctgggt ccagctgtgg tctgggggtg aatggagctt gaccttgcc caccagggc 480  
 ctgtctgttc tcattgtggc catccacatc ctggagctgc tcat 524

<210> 640  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 640  
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 agttgctaata aaaggggagc ccttggccct ccctttggat gctgggtgaat actgtgtgcc 180  
 tagaggaaat cgtaggcggg tccgcggttag gcagcccatc ctgcagtata gatgggatat 240  
 gatgcatagg cttgggagaac cacaggcaag gatgagagaa gagaatatgg aaaggattgg 300  
 ggaggaggtg agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360  
 ggcagtcagc actgaccccc ctcacatga ccactcatgat gagttttgcc ttatgccctg 420  
 aatcctgatg gtttccctaa agttattacg gaaacagacc cctgctttcg aatttacatg 480  
 ttcattgatg gcccttggtg taaaccttta cctgtcactt gttt 524

<210> 641  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<400> 641  
 gaattcggca cgaggcctcg tgccgtgccc cccgaggtat gcgggggtcac tcgctgctcg 60  
 atgttccctc cgaagggtcg gacaaggctc cggagccctg tagctgccct ccctaggagc 120  
 cccgggtctt cactggccga ggtgcccacc ccgcagcatt ctgggagtg tagttttctt 180

```

ccttcaggtt cattcctggc tggccagtgc ccaagactgg cgagactacg attcccagac 240
gcccaagcga gtcgccgggtc acgtggccgc aaggacgctg ggccgggtggg cggggggccgg 300
caggtgctcc gcagccgtct gtgccacca gagccggcgg gccgctaggt ccccgagac 360
cctgctatgg tgcgtgctgg cgccgtgggg gctcatctcc ccgctccgg cttggatatc 420
ttcggggacc tgaagaagat gaacaagcgc cagctctatt accaggtttt aaacttcgcc 480
atgatcgtgt cttctgcact catgatatgg aaaggcttga tcg 523

```

&lt;210&gt; 642

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

```

gaattcggca cgaggggtgaa ggtgtgtgtc agctttttgcg tcactcgagc cctggggcgct 60
gcttgctaaa gagccgagca cgcgggtctg tcatcatgtc gcgttacggg cggtagcggag 120
gagaaaccaa ggtgtatgtt ggtaacctgg gaactggcgc tggcaaagga gaggtagaaa 180
gggctttcag ttattatggt cctttaagaa ctgtatggat tgcgagaaat cctccaggat 240
ttgcctttgt ggaattcgaa gatcctagag atgcagaaga tgcagtacga ggactggatg 300
gaaaggtgat ttgtggctcc cgagttaggg ttgaactatc gacaggcatg cctcggagat 360
cacgttttga tagaccacct gcccgacgtc cctttgatcc aaatgataga tgctatgagt 420
gtggcgaaaa gggacattat gcttatgatt gtcacgttga cagccggcga agaagaagca 480
ggtcacggtc tagatcacat tctcgatcca gaggaaggcg atac 524

```

&lt;210&gt; 643

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

```

gaattcggca cgaggggtgaa caccagaata tttggcaaag ggagaaaaaa aaagcagcga 60
ggcttcgcct tccccctctc cctttttttt tcctcctctt ccttcctcct ccagccgccg 120
ccgaatcatg tcgatgagtc caaagcacac gactccgttc tcagtgtctg acatcttgag 180
tccccctggag gaaagctaca agaaagtggg catggagggc ggcggcctcg gggctccgct 240
ggcggcgtac aggcagggcc aggcggcacc gccaacagcg gccatgcagc agcacccgct 300
ggggcaccac ggcgcctgca ccgccgccta ccacatgacg gcggcggggg tgccccagct 360
ctcgcaactcc gccgtggggg gctactgcaa cggcaacctg ggcaacatga gcgagctgcc 420
gccgtaccag gacaccatga ggaacagcgc ctctggcccc ggatgggtacg gcgccaaccc 480
agaccgcgcg tttccccgcca gttctttttt ttcaggatca ggc 523

```

&lt;210&gt; 644

&lt;211&gt; 525

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 644

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gaattcggca cgaggggaaaa ccagagatag agggaaagcc agagagtga ggagagccag 60
ggagtgaaac aagggtgca ggaaagcgcc cagctgagga tgatgtaccc aggaaagcca 120
aaagaaaaac taataagggg ctggctcatt acctcaagga gtataaagag gccatacatg 180
atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aagggtgcagg 240
atgagaagag aaaaagcaaa cagaaattgg gggcggtttt gtggatgcaa agaaatttac 300
aggacccctt ctaccctaga ggtccaaggg aattcagggg tggctgcagg gcccacgaa 360
gggacattga agacattcct tatgtgtagt gtccctggca ggcatttac aggccatgtg 420
ctttaacgtt cggttaatact ttacttttag catccctcct gttgctagca gccttttgac 480
ctatctgcaa tgcagtgttc tcagtaggaa atgttcatct gttac 525

```

&lt;210&gt; 645

&lt;211&gt; 358

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 645

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gaattcggca cgagggggtg gtggagcgct gggcgccag gctccctggc tggccggttt 60
gggcgtcttg gccgtgaagg tgggacctcc tgttcgggc cgcaagtttc cctctccagc 120
cgcccgccgt tcgtagcatg tccccagaa ctcggggagc gcaggcagga caggcttaga 180
gaagacgcgg tccccagcgc ttggggccacg gacgtcccac cccgctcctc tgtcgctgga 240
gaaccgccgg gccgagccac tgggagaagc aggccagagc cttccagggc ctccggcccg 300
tggacccgag gaggatgagc tggctttttc ccctgaccaa gagcgcctcc tcctccgc 358

```

&lt;210&gt; 646

&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 646

```

gaattcggca cgagggcgttc cttcgcacac tgtgattttg ccctcctgcc cagcagacc 60
tgcagcgggc aaagagctcc cgaggaagca cagcttgggt caggttcttg cctttcttaa 120
ttttagggac agctaccgga aggaggggaa caaggagttc tcttcgcag cccctttccc 180
cacgcccacc cccagtctcc agggaccctt gcctgcctcc taggctggaa gccatggtcc 240
cgaagtgtag ggcaagggtg cctcaggacc ttttggctct cagcctccct cagccccag 300
gatctgggtt aggtggccgt cctcctgctc ctcatgggaa gatgtctcag agccttcag 360
acctcccctc cccaacccaa tgccaaagtg gacttgggag ctgcacaaag tcagcagggg 420

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&lt;210&gt; 647

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 647

```

gaattcggca cgagggcgtgc cggaggggtcg ttttaaaggc cccgcgcgtt gccgccccct 60
cggcccgcga tgctgctatc cgtgccgctg ctgctcggcc tcctcggcct ggccgtcgcc 120
gagcctgccg tctacttcaa ggagcagttt ctggacggag acgggtggac ttcccgtggt 180
atcgaatcca aacacaagtc agattttggc aaattcgttc tcagttccgg caagttctac 240
ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgctt ttatgctctg 300
tcggccagtt tcgagccttt cagcaacaaa ggccagacgc tggtggtgca gttcacggtg 360
aaacatgagc agaacatcga ctgtgggggc ggctatgtga agctgtttcc taatagtttg 420
gaccagacag acatgcacgg agactcagaa tacaacatca tgtttggtcc cgacatctgt 480
ggcctgcacc aaaaagggtc atgtcatctt caactaca 518

```

&lt;210&gt; 648

&lt;211&gt; 561

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 648

```

gaattcggca cgaggggtccg cttgaccgag atgctgcggg cctgtcagtt atcgggtggg 60
acccccgccc ccccaaagtg gctctgtggg aagtttgtcc tccgtccatt gcgaccatgc 120
cgcaaaaact ctactttagg cagctctggg ttgactactg gcaaaattgc tggagctggc 180
cttttgtttg ttggtggagg tattggtggc actatcctat atgccaaatg ggattcccat 240
ttccgggaaa gtgtagagaa aaccatacct tactcagaca aactcttcga gatgggtcct 300
ggtcctgcag cttataatgt tccattgcc aagaaatcga ttcagtcggg tccactaaaa 360
atctctagtg tatcagaagt aatgaaagaa tctaaacagc ctgcctcaca actccaaaaa 420
caaaaggagg atactccagc ttcagcaaca gcagggtgata ccctgtcggg cccagccccct 480
gcagttcagc ctgaggaatc tttaaaaact gatcaccctg aaattgggtga aggaaaaccc 540
acacctgcac tttcagaaga a 561

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&lt;210&gt; 649

<211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 649  
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 gcaggagagt aattatgaat agcgcagcgg gattctcaca cctagaccgt cgcgagcggg 120  
 ttctcaagtt aggggagagt ttcgagaaac accgcgcgtt gcgccttcca cactgtgcgc 180  
 tatgacttca aacctgcttc tattgacact tcttctgaag gataccttga ggttggtgaa 240  
 ggtgaacagg tgaccataac tctgccaaat atagaaggtt caactccacc agtaactgtt 300  
 ttcaaagggt caaaaaacct tactttaaag aatgcatttt gattattaac catgatactg 360  
 gagaatgtcg gctagaaaaa ctcagcagca acatcactgt aaaaaaaca agagttgaag 420  
 gaagcagt 428

<210> 650  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 650  
 gaattcggca cgagggaggg gtcgggctg gccggcgact gaggggtcgg gctggctctt 60  
 gagggccag gccctggccg acgcgccgc cgtgagcgag gagggccgaa tccgggcgtc 120  
 tttggttggg ttgccccccc aggcgcgcgc gccggggtcg ggaggcgtgg caggtggccc 180  
 gacagccttc tttgacctct gggaaagctg acttattcct atggctttgc ttctagggct 240  
 ttcttaggcc tctttgccgg ctgcctgggc agcccgcgag gtgggctgga gtaactggat 300  
 aaaagtatag ggtggaatcg ggcctactag gtacccttag tagtagggaa ggttggtatt 360  
 agaccgagag ggaatgttta caactagcgt tacagtttaa tatttgaaaa tccaaagcgg 420  
 aagactgg 428

<210> 651  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<400> 651  
 gaattcggca cgagggccgg gccgtgggtg acacgtaagt tgggcaggag gtggcggggc 60  
 ggcagaggca ccagccgacc cgtcagtgac accgctgtgc cgtcccaaaa accagccgag 120  
 acagctggcc cccacccttc caccattgg gcaggccgca cgggggcgcg gcccgagtc 180  
 ctggtccctt tgttgggcgc gcacccctc ccttaggtgg caacaaagtc gtgcagtggg 240  
 agccgccgcg atagggcggg gagtggccag ggcgggactc caagaactgc ccgggggcag 300  
 cggggccaaa aagtgggaag aaggaaaaaa ggcaggaggc a 341

<210> 652  
 <211> 669  
 <212> DNA  
 <213> Homo sapiens

<400> 652  
 gaattcggca cgagggaaaa tttgtgctct ggagagaact gttaaagctc tagaatttgt 60  
 tcaaaactgaa tctcaaaaag atttggaat aaccaaaaga aatctggctc aagcagttga 120  
 acaccgcaaa aaggcacaag cagaattagc tagcttcaaa gtccctgctag atgacactca 180  
 aagtgaagca gcaagggtcc tagcagacaa tctcaagttg aaaaaggaac ttcagtcaaa 240  
 taaagaatca gttaaaagcc agatgaaaca aaaggatgaa gatcttgagc gaagactgga 300  
 acaggcagaa gagaagcacc tgaaagagaa gaagaatatg caagagaaac tggatgcttt 360  
 gcgcagagaa aaagtccact tggaagagac aattggagag attcaggtta ctttgaacaa 420  
 gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagcttgc 480  
 agcctttact aagagcatgt cttccctcca ggatgatcgt gacaggggtga tagatgaagc 540  
 taagaaatgg gagaggaagt ttagtgatgc gattcaaaag aaagaagaag aaattagact 600



caaagaagat aattgcagtg gtctaaagga tcaacttaaa cagatgtcat tcatatggaa 660  
gaattaaga 669

<210> 653

<211> 322

<212> DNA

<213> Homo sapiens

<400> 653

gaattcggca cgaggcttgc ttctgtggaa caatgccaca gtgaccacct gccactccaa 60  
gactgcccat ctggatgagg aggtaaataa aggtgacatc ctggtggttg caactgggtca 120  
gcctgaaatg gttaaagggg agtggatcaa acctggggca atagtcacgc actgtggaat 180  
caattatgtc ccagatgata aaaaacccaa tgggagaaaa gttgtgggtg atgtggcata 240  
cgacgaggcc aaagagaggg cgagcttcat cactcctgtt cctggcggcg tagggcccat 300  
gacagttgca atgctcatgc ag 322

<210> 654

<211> 332

<212> DNA

<213> Homo sapiens

<400> 654

gaattcggca cgagggcggg aagcagctct tgtggatcct cagtggcggg ggctcgggtca 60  
cccgatagg taaaggaaaa catgcctgcc acacggaagc caatgagata tgggcataca 120  
gagggacaca cggagggtctg ttttgatgat tctgggagtt ttattgtgac ttgtggaagt 180  
gatggtgatg tgaggatttg ggaagacttg gatgatgatg atcctaagtt cattaatgtt 240  
ggagaaaagg catattcatg tgctttgaag agtggaaaac tggtcactgc agtttctaata 300  
aatactattc aagtcacacac atttcctgaa gg 332

<210> 655

<211> 573

<212> DNA

<213> Homo sapiens

<400> 655

gaattcggca cgaggaaata aggtgaattt gggacaaatg aaaggtgaga tgaaggcaaa 60  
ctactgtcaa gggatgatct gagcctgaac aactcagtga atgtgaagag aaaacaagat 120  
tacatgtgaa tatagatgtt aactggaaaa gcaaggagaa aaaaaggag cacaaggaag 180  
aaaaaaaaat caaaatttgt gagccatctc aagccatcaa aaaaacttca ttctattgta 240  
ggaggggaagc tggaaacaat ggcagagtaa ttttgtgtta agaattaaag tactagctcc 300  
agttaggcat ataaatgaca attagaaggg acagaagtta tggttatgtc agcagcctcc 360  
agtgaagctag gatataaact aagtcttttc aagctgaaca aatatataca cattcaaccc 420  
atttaagtga agagacacat ttaagtccac aaaagcaaac ttaactacct actatataac 480  
ttacttttta ttgaaagtat cttgcattca tgatggatgc tttctgggtt ttaccacata 540  
ttttaatggt aaaagttaaa ttattcttta cat 573

<210> 656

<211> 462

<212> DNA

<213> Homo sapiens

<400> 656

gaattcggca cgagggaagaa acttggagga caggtcgata ggtgcggcaa accaccatag 60  
tacacatata cctatgtaac aaacctccac attctgcaca tgtgtcccag aacttaaaagt 120  
aaaattttaa aaaaaagaaa agaaatatcc agaaagatta tccagcctca aggtttatat 180  
tataatggct ataaacaaca aaacataaac ctattttcca aaggtttcca aatatactac 240  
cgaagaaaca aacataaaaa acgactttga tattttctaaa aagcataact taaaatttaa 300  
aaaaaaagtt aatgaaaaaa caaacactca atgggttactg cttacttta agaaaaaac 360

atattagttaa gcacattttc ccccaaagct atttaaacac caagattcag aagtaaacct 420  
tatttagatg agtttctagt caacgaattg acctacataa tc 462

<210> 657

<211> 383

<212> DNA

<213> Homo sapiens

<400> 657

gaattcggca cgagggaaga gcgagagct ggagcaggag gaggagcggc tctccaagga 60  
gtgggaggac tccaaacgct ggagcaagat ggaccagctg gccaaaggagc tgacggctga 120  
gaagcggctg gaggggcagg aggaggagga ggacaaccgg gacagttcca tgaagctctc 180  
cttcogggcc cgggcctacg gcttcagggg ccctggggccg cagctgcgac gaggctggag 240  
gccatcctcc ggggaggaca agccttgagg cgggcctgcc ctccagggtcc gaggctaccc 300  
cgaggagaag aaagaggagg agggcagcgc aaaccgcaga ccagaggacc aggagctgga 360  
gagcctgtcg gccattgagg cag 383

<210> 658

<211> 540

<212> DNA

<213> Homo sapiens

<400> 658

gaattcggca cgaggtttcg agtcagtgcg gccgccgctg cccgcggctt tgcagagcag 60  
gatgaatgtg atagaccacg tgcgggacat ggcgcccgcg gggctgcact ccaacgtgcg 120  
gctcctcagc agcttggtac ttacaatgag taataacaac cctgagttat tctccccacc 180  
tcagaagtac cagcttttgg tgtatcatgc agattctctc tttcatgata aggaatatcg 240  
gaatgctgtg agtaagtata ccatggcctt acagcagaag aaagcgctaa gtaaaaacttc 300  
aaaagtgaga ccttcaactg gaaattctgc atctactcca caaagtcagt gtcttccatc 360  
tgaaattgaa gtgaaatata aaatggctga atgttatata atgctaaaac aagataaaga 420  
tgccattgct atacttgatg ggatcccttc aagacaaaga actcccaaaa taaacatgat 480  
gctggcaaac ctgtcaagaa ggctggtcag gagcgccctt cagtcaccag ctataaggag 540

<210> 659

<211> 366

<212> DNA

<213> Homo sapiens

<400> 659

gaattcggca cgaggcttca aactcacacc tcccgggagg agctgtcctg gcgccgggtc 60  
ccgcggggaa aatgggtggag ccagggcaag atttactgct tgctgctttg agtgagagtg 120  
gaattagtcc gaatgacctc tttgatattg atggtggaga tgcagggtt gcaactccaa 180  
tgcctacccc gtcagttcag cagcagcagc ctccatctac tacaacattt gtgctgaatc 240  
aaataaatca tcttccaccc ttgggatcta caattgtaat gactaaaaca ccacctgtaa 300  
caaccaacag gcaaaaccat cactttaact aagtttatcc agactactgc aagccacgcc 360  
ccgtca 366

<210> 660

<211> 514

<212> DNA

<213> Homo sapiens

<400> 660

gaattcggca cgaggaggaa gaaaagcact agcaacttca aagccgacgg cctgtccggc 60  
actgtgtaag aacaagaaga aaattttgag tttatcattg tgtccctcac tggccaaaca 120  
tggcactttt gaagccacga cgtatgagga gcgggacgct ggggtccaagc catcgagagc 180  
cagatcctgg ccagcctgca gtctgtgcgag agcagcaaga acaagtccc gctgacgagc 240  
cagagcgagg ccattggcct gcagtcgata cggaacatgc gcgggaactc ccactgtgtg 300

```

gactgcgaga cccagaatcc caactgggcc agtttgaact tgggagccct catgtgcatc 360
gaatgctcag ggatccaccg gaatcttggc acccaccttt cccgagtccg atctctggac 420
ctggatgact ggccaatcga gctcatcaag gtgatgtcat ccacgggaa cgagctagcc 480
aacagcgtct gggaagagag cagccagggg cgga 514

```

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<210> 661
<211> 515
<212> DNA
<213> Homo sapiens

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<400> 661
gaattcggca cgaggcggag tcaaggtgga cgcgagagac cacagtggag ccacagcccg 60
gatgctggcc aagcagtacg gacacatgaa gatcgtggcc ttgatggaca cttactcgcc 120
ctctctgccc aagagcctct atcggagccc agaaaagtac gaagatctga gctcttctga 180
cgagtcctgc cctgtcctc agagacagag gccttgccgg aagaagggtg tcagcatcca 240
cgagggaccg cgagccctgg ccaggatcac aggcattggc ctgggcggca gagccccacg 300
gcctcgctat gagcaggctc ctccccgtgg ctatgtcacc ttcaacagca gtggcgagaa 360
ccccctggaa gaagagggcc tctgctgccg ggatgtcacc tcccccatca atgagcggga 420
cgtggagagc agcagcagca gcagcagtcg ggaggaacat gctttctgtg ccaacctggg 480
gcccgtccag agcagcagca gcagcgaggg cctgg 514

```

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<210> 662
<211> 570
<212> DNA
<213> Homo sapiens

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```

<400> 662
gaattcggca cgaggcggct gcggcgcgcc gggcggaact ttccagaacg actactgagt 60
gagaggtcgg aggagcggta actaccccggt ctgcgcacag ctcggcgctc cttcccgctc 120
cctcacacac cggcctcagc ccgcaccggc agtagaagat ggtgaaagaa acaacttact 180
acgatgtttt gggggtcaaa cccaatgcta ctgaggaaga attgaaaaag gcttatagga 240
aactggcctt gaagtaccat cctgataaga acccaaataga aggagagaag tttaaacaga 300
tttctcaagc ttacgaagtt ctctctgatg caaagaaaag ggaattatat gacaaaggag 360
gagaacaggc aattaaagag ggtggagcag gtggcggttt tggctcccc atggacatct 420
ttgatatgtt ttttggagga ggaggaagga tgcagagaga aaggagaggt aaaaatgttg 480
tacatcagct ctgagtaacc ctagaagact tatataatgg tgcaacaaag aaaactggct 540
ctgcaaaaaga atgtgatttg tgacaaatgt 570

```

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<210> 663
<211> 307
<212> DNA
<213> Homo sapiens

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<400> 663
gaattcggca cgaggcggcg gaggggctgg ctgggcagga ggggttggcg gggcagcagg 60
gccgcggcca tggggagctt gaaggaggag ctgctcaaa ccatctggca cgccttcacc 120
gcaactcgacc aggaccacag cggcaaggct tccaagtccc agctcaaggc cttttcccat 180
aacctgtgca cgggtgtgaa ggttcctcat gaccagttg cccttgaaga gcacttcagg 240
gatgatgatg agggctccagt gtccaaccag ggctacatgc cttattttaa caggttcatt 300
ttggaaa 307

```

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<210> 664
<211> 496
<212> DNA
<213> Homo sapiens

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<400> 664
gaattcggca cgaggcggcg ccgaggagat tggcgacggt gtcgcccgtg ttttcgttgg 60

```

```

cgggtgcctg ggctggtggg aacagccgcc cgaaggaagc accatgattt cggccgcgca 120
gttgttgat gagttaatgg gccgggaccg aaacctagcc ccggacgaga agcgcagcaa 180
cgtgcggtgg gaccacgaga gcgtttgtaa atattatctc tgtggttttt gtcctgcgga 240
attgttcaca aatacacgtt ctgatcttgg tccgtgtgaa aaaattcatg atgaaaatct 300
acgaaaacag tatgagaaga gctctcgttt catgaaagtt ggctatgaga gagatttttt 360
gcgatactta cagagcttac ttgcagaagt agaacgtagg atcagacgag gccatgctcg 420
tttggcatta tctcaaaacc agcagtcctc tggggccgct ggcccaacag gcaaaaaaaaa 480
aaaaaaaaaa ctcgag 496

```

&lt;210&gt; 665

&lt;211&gt; 517

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 665

```

gaattcggca cgaggggact cgcgagagag gactcacgga cctccaggac ctattaactt 60
gacagacccg cccctctatt cgagccagcc caactcggag aactcagagt catcctcgag 120
agtaaagaaa gctcttagag tttttttttt ttgacaaat ctatcttaaa tgtcagtcca 180
atatccacgg cgacgagcca cagcaggtga gaaacctgga aatgagcctg aagaggtgaa 240
gctgcagaat gccagcaaac agattgtgca gaatgcaatc ctgcaagctg tgcagcaagt 300
ctcccaggag agtcagcgca gagaagagag aatcagtgac aaccgggacc acatccaact 360
gggcgttggg gagttaacca agaagcacga aaagaagtaa catggtggat ttggctcttg 420
acatgtgctt ggtttctagc cttcctctta gtataggacg catctcccaa atgttgccag 480
taaagcaaac ccgaagtggc acccgccctt aacttgt 517

```

&lt;210&gt; 666

&lt;211&gt; 616

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

```

gaattcggca cgaggggccg ctcttgtcct tcctcccgct tttcttctc tctccttgcg 60
gtctgaagat gccctcggcc accagccaca gcgggagcgg cagcaagtgc tccggaccgc 120
caccgccgtc ggggttcctcc gggagtggag cgcccgcggg agccggggcc gccgcgccgg 180
cttctcagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg aagcagattc 240
tcggggtgat cgacaagaaa cttcggaacc tggagaagaa aaagggtgaa cttgatgatt 300
accaggaacg aatgaacaaa ggggaaaggc ttaatcaaga tcagctggat gccgtttcta 360
agtaccagga agtcacaaat aatttgaggt ttgcaaaaga attacagagg agtttcatgg 420
cactaagtca agatattcag aaaacaataa agaagacagc acgtcgggag cagcttatga 480
gagaagaagc tgaacagaaa cgtttaaaaa ctgtacttga gctacagtat gttttggaca 540
aattgggaga tgatgaaagt gcggacttga cctgaaacaa ggggttgatg ggagtggcaa 600
tattgtccga agagga 616

```

&lt;210&gt; 667

&lt;211&gt; 596

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

```

gaattcggca cgaggggaaa ttagtgctct ggagagaact gttaaagctc tagaatttgt 60
tcaaaactgaa tctcaaaaag atttggaaat aaccaaagaa aatctggctc aagcagttga 120
acaccgcaaa aaggcacaa gagaattagc tagcttcaaa gtcctgctag atgacactca 180
aagtgaagca gcaagggtcc tagcagacaa totcaagttg aaaaaggaac ttcagtcaaa 240
taaagaatca gttaaaagcc agatgaaaca aaaggatgaa gatcttgagc gaagactgga 300
acaggcgaaa gagaagcacc tgaaagagaa gaagaatatg caagagaaac tggatgcttt 360
gcgcagagaa aaagtccact tggaagagac aattggagag attcaggtta ctttgaacaa 420
gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagcttgc 480
agcctttact aagagcatgt cttocctcca ggatgatcgt gacagggtga tagatgaagc 540

```

taagaaatgg gagaggaagt ttagtgatgc gattcaaagc aaagaagaag aaatta 596

<210> 668

<211> 297

<212> DNA

<213> Homo sapiens

<400> 668

gaattcggca cgaggggaaa caccatggct gcggcggccc agctctctct gacacagtta 60  
tcaagtggga atcctgtata tgaaaaatac tatagacagg ttgatacagg caatactgga 120  
agggtgttgg cttctgatgc tgctgctttc ctgaaaaaat cagggcttcc agacttgata 180  
cttgaaaaga tttgggattt agccgacaca gatggcaaag gtatcctgaa caaacaagaa 240  
ttctttgttg ctttgcgtct tgtggcatgt gcccagaatg gattggaagt ttcacta 297

<210> 669

<211> 458

<212> DNA

<213> Homo sapiens

<400> 669

ggcacgaggg atcggtcgcc tgagaggtat cacctcttct gggctcaaga tggacaacaa 60  
gaagcgcctg gcctacgcca tcatccagtt cctgcatgac cagctccggc acgggggcct 120  
ctcgtccgat gctcaggaga gcttggaagt cgccatccag tgcctggaga ctgctgttgg 180  
ggtgacggta gaagacagtg accttgcgct ccctcagact ctgccggaga tatttgaagc 240  
ggctgccacg ggcaaggaga tgccgcagga cctgaggagc cccgcgcgaa ccccgccctc 300  
cgaggaggac tcagcagagg cagagcgcct caaaaccgaa ggaaacgagc agatgaaagt 360  
ggaaaacttt gaagctgccg tgcatttcta cggaaaagcc atcgagctca acccagccaa 420  
cgccgtctat ttctgcaaca gagccgcagc ctacagca 458

<210> 670

<211> 634

<212> DNA

<213> Homo sapiens

<400> 670

gaattcggca cgaggctcag ctgacaagga ctggggacgg cgggtgtcctt gtcttgccctt 60  
tgtcgccccc gccctctctt tccctggctg gacttgcgga gtccccgccg aagaaccgca 120  
ggagccatat attgaagacc atgtctggaa gcttctactt tgtaattgtt ggtcaccatg 180  
ataatccagt ttttgaatg gagtttttgc cagctgggaa ggcagaatcc aaagacgacc 240  
atcgtcatct gaaccagttc atagctcatg ctgctctcga cctcgtagat gagaacatgt 300  
ggctgtcgaa caacatgtac ttgaaaactg tggacaagtt caacgagtgg tttgtgtcaa 360  
catttgtcac cgcggggcat atgaggggta ttatgcttca tgacataaga caagaagatg 420  
gaataaagaa cttctttact gatgggttat atttatatat aaaattttca atgaatccat 480  
tttatgaacc caattcttct attcgatcaa gtgcatttga cagaaaagtt caatttcttg 540  
ggaagaaacc cttttaaagc tgaatggaga aaattccaaa taaattatat caccaccatg 600  
gtgtatactc aaaaaaaaaa aaaaaaaact cgag 634

<210> 671

<211> 517

<212> DNA

<213> Homo sapiens

<400> 671

gaattcggca cgaggcaaag gcgtatctca gatgccottg agatatggaa tgaaccacaa 60  
tcagaccctt gccagctgt acacactgca gcccaagctt cccatcacag ttctaaatgg 120  
agcccctgga tttataaact tgtgcgatgc tttgaacgcc tggcagctgg tgaaggaaact 180  
caaggaggct ttaggtattc cagccgctgc ctctttcaaa catgtcagcc cagcaggtgc 240  
tgtgtttgga attccactca gtgaagatga ggccaaagtc tgcattgggtt atgatctcta 300

```

taaaaccctc acacccatct cagcggcata tgcaagagca agaggggctg ataggatgtc 360
ttcatttggg gattttgttg cattgtccga tgtttgtgat gtaccaactg caaaaattat 420
ttccagagaa gtatctgatg gtataattgc ccaggatat gaagaagaag ccttgacaat 480
actttccaaa aagaaaaatg gaaactattg tgtcctt 517

```

&lt;210&gt; 672

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 672

```

aattcggcac gagggtttaa acagatttct caagcttacg aagttctctc tgatgcaaag 60
aaaagggaat tatatgacaa aggaggagaa caggcaatta aagagggtgg agcagggtggc 120
ggttttggct ccccatgga catctttgat atgttttttg gaggaggagg aaggatgcag 180
agagaaagga gaggtaaaaa tgttgtacat cagctctcag taaccctaga agacttatat 240
aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa atgtgaaggt 300
agaggaggta agaaaggagc agtagagtgc tgtcccaatt gccgaggtag tggaatgcaa 360
ataagaattc atcagatagg acctggaatg gttcagcaaa ttcagtctgt gtgcatggag 420
tgccagggcc atggggagcg gatcagtcct aaagatagat gtaaaagctg caacggaagg 480
aagatagttc gagagaagaa aattttaaaa gttcat 516

```

&lt;210&gt; 673

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 673

```

aattcggcac gaggaacgag actgtgtctc aaaaaaatcc agaagcttta tcccagggtct 60
actggacttc ctagaacacc aagaaaggaa agggaattcg cctgtcatga tttagaatca 120
tgggggaata ttgtactacc caaataatga gtgacaaaaa ggtacctcct tgtttttaag 180
ccacaacttg aagcagttag caaggaggtc tatttttggtg agaaagttgg tgggttccat 240
tttcaacatg tgattcaaat tacttaatac aggcctgggac agggagaatg tgagcagctg 300
atattccagc tgagattagg ggtccatttg tagagatggg tccagaagac caaaactatg 360
gaaagaatga cagggtcaaa gtggaggagc tgccggggac atccagcagt cagagaattt 420
ctgaattgaa aacatggcca agcgcagtag ctcatccttg taatccccac actttgggag 480
accaaagcag aaggatccct tgaggccagg agttca 516

```

&lt;210&gt; 674

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 674

```

gaattcggca cgaggcttga gtgacgatgt ccctatcagg gactatcgca tcgatgagaa 60
gaactttgtg gtcgtcatgg tgaccaagac caaagccggc cagggtacct cagcaccccc 120
agaggcctca cccacagctg cccagagtc ctctacatcc ttcccgcctg cccacacctca 180
ggcatgtccc atccccacc tgccgccaga gaggacaaga gcccatcaga ggaatccgcc 240
cccacgacgt cccagagtc tgtgtcaggc tctgttccct cttcaggtag cagcgggcga 300
gaggaagacg cggcctccac gctagtgcag ggcctgtagt atgagacgat gctgacggag 360
atcatgtcca ggggctatga gcgagagcgg gtcgtggccg cctgagagcc agctacaaca 420
acccccaccg agcgtggag tatctgtctc cggaattcc tgggagcccc gagccggaac 480
acggttctgt ccaggagagc caggatcagg agcagc 516

```

&lt;210&gt; 675

&lt;211&gt; 406

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 675

```

cctcgtgccg aattcggcac gaggatcagt ttaaaacagt gcctgggctc ccagccctcc 60
actcacttcc ctgttctctg catgggtgat actgagaggt tgggaggcat aggaaggggg 120
aagatcctag ggagtatatg tgagcattga ctatatgcag agggtttttag tggtgctcgt 180
tagaaatggt tggaggcgga tagaaaatat ttttagaaga gcatcctccc aatgttctct 240
cctttttttc tggatggaag atgtttttgt gccagaaatc agattgatac ccaaagttag 300
atttcagtt tactccacag gtcccctaata ttaaggggat catcactctt gttctttttc 360
taatcagtta gtagtgctat tcctgatcac tgggaagtgc tgttgt 406

```

&lt;210&gt; 676

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 676

```

gaattcggca cgagggacat ttcttggcat tgaagaaaaa tttaggcctt tttattttaag 60
tcaattagaa gaaagtgtag aagaggacgt gaagagttaa aagaaagagt attcaaacga 120
aaaatgcagt tgtgaagaga atgcagtctc ttactttgat tgtgtggcag taccttcaag 180
ccggtcaaata tcagccacag aacagcctgg ttactttgca cagttcccag ggacttggga 240
tgggtcctgt ggaggagtcc tggttttgtc ctcccttggg gcacccacaa gaagagaatg 300
agccagcct gcagagtaaa ctccaagacg aagccactac catctttatg gcagccgcat 360
ggacaggcag acgaaacagc agccagaca gaatgtggct tacaacagag aggaggaaag 420
gagacgcagg gtctcccatg acccttttgc acagcaaaga ccttacgaag aattttcaga 480
atacagaggg aaaaggcctg gttattccag tgcagccagt catggtaat 529

```

&lt;210&gt; 677

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 677

```

tggatccaaa gaattcggca cgaggcctct atctcctaga tgacaggatc tatgcaacta 60
accagagat gacacagaga tgaatgagat gtggctcctg tcatcaagga gctcatgatt 120
caatggggaa ctaacactta gatgcattgg cagttaggga catgcaagaa tctttgtaat 180
gcaacaagag agaagttaca aggcagcacg gaagtcaatg ccggtgaacc cagatggcct 240
ggtgagagga gcctggacta gaaggaatta ctctcacttc caccacccga tgtatggaaa 300
ctgtataact ttcaatgaca agaacaactc caacctctgg atgtcttcca tgccctggaat 360
caacaacggt ctgtccctga tgctgcgcgc aaagcagaat gacttcattc ccctgctgtc 420
cacagtgact ggggcccggg taatggtgca cgggcaggat gaacctgcct ttatggatga 480
tgggtggcttt aacttgcggc ctggcgtgga gacctccatc agcatgag 528

```

&lt;210&gt; 678

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 678

```

gtggatccaa agaattcggc acgaggctgg acaggcgggt gtgaggagtt gcagacccaa 60
accacagtgc attttgggac aattgctttt taaaacgttt ttatgccaaa aatccttcat 120
tgtgattttc agaaccacgt cagatatatac aagtgactgt gtgtgggggt tgacaactgt 180
ggaaaggcga gcagaaaact ccggcgggtct gaggccatgg aggtggttgc tgcatttgag 240
aggagtagg gggctagatg tggtccttag tgcaaaccgg aaaccatggc acctccaga 300
gccgtggtct caaggagtca gagcagggtt ggccctcagt agctgcaggg agctttgatg 360
caacttattt gtaagaagga tttttaaatt ttttatgggt agaattgtag tcaggaaaac 420
agaaagggct tgaaatttaa taagtgtctg tgggaagggga ttttccaagc ctggaaggggt 480
attcagcagc tgtggtgggg aaacatttct cctgaaagac tgaacgtg 528

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&lt;210&gt; 679

<211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 679  
 gaattcggca cgagggcaag atgggtcacc agcagctgta ctggagccac ccgcgaaaat 60  
 tcggccaggg ttctcgctct tgtcgtgtct gttcaaaccg gcacggtctg atccggaaat 120  
 atggcctcaa tatgtgccgc cagtgtttcc gtcagtacgc gaaggatatc ggtttcatta 180  
 agttggacta aatgctcttc cttcagagga ttatccgggg catctactca atgaaaaacc 240  
 atgataattc tttgtatata aaataaacat ttgaaaaaac cttcaaaaa aaaaaaaaaa 300  
 aaactcgag 309

<210> 680  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<400> 680  
 gaattcggca cgagggcggg cgttatccat ttgtgttgtt cgccagctag gcctggcctc 60  
 gtcccgcttc gctcggctcg tctcgcgcgc ccccatagcc ttgctagagg gttagcgcta 120  
 gccttaaagt gtgcgaatcc cgaaggaagc aagcgacaga actcgaagaa ccaccgcttc 180  
 ctttccttcg gggaaaggaa ggcgggcacc ctgcgctttt gaaaggcccc gcccttgccg 240  
 ttttggaagg ccccgccctt gcgctttgcg ggccccgcct tgcgctttga aggccttgct 300  
 ttgccgtttt gaaaatctca tttggggccg tggattgaag gaattttggg ggaagggttt 360  
 tggggc 366

<210> 681  
 <211> 495  
 <212> DNA  
 <213> Homo sapiens

<400> 681  
 gaattcggca cgagggcgcg agccggccgg gagaggctcg gacccccag acctccagcc 60  
 ttttagaccct ccggccctag gacccccgga acctgggacc cccgagacc cagcactcgc 120  
 ggcgggggga tggatcatgg gacttctggg gcttgaagac cctgggtctg cgggaagccc 180  
 ctgctgagcg tccctcgctt acccctgggc cagtggcttt tcagtgcaga aaccacctta 240  
 tctatgtgac aaagctcggg ccatcagtgg caaggtagat tggcatcacg tacctttgat 300  
 acaacaacct gagaaggacg tcaactctgc gatattcctg ccaaaaatgc atctccgcac 360  
 tccgatcgtg agaacatcct gggcacaccc aaactgagag acaccataca aagtgaactg 420  
 tcagtgcact caaaggcaaa aagctcatgg aaggcaacag aagacaggag aagtgaacag 480  
 taaaagcagc gtgga 495

<210> 682  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 682  
 gaattcggca cgaggggtgaa acagccgctt gagtttggct gcgggtggag aacgtttgtc 60  
 aggggcccgg ccaagaagga ggcccgcctg ttacgatggg gtccatgagt ttcaagcggg 120  
 accgcagtga ccggttctac agcaccgggt gctgcggctg ttgcatgctc cgcaccggga 180  
 cgatcatcct ggggacctgg tacatggtag taaacctatt gatggcaatt ttgctgactg 240  
 tggaagtgac tcatccaaac tccatgccag ctgtcaacat tcagtatgaa gtcacgggta 300  
 attactattc gtctgagaga atggctgata atgcctgtgt tctttttgcc gctctgttct 360  
 tatgtttata atcagttcaa tgctggttta tggagcaatt tcttatcaag tgggttggct 420  
 gattccattc ttctgttacc gactttttga cttcgtcctc agttgcttgg ttgctattag 480  
 ttctctcacc tatttgccaa gaatcaaaga atatctggat caactacct 529



<210> 683  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
 gaattcggca cgagggaaca ccatgccttc aattaagttg cagagttctg atggagagat 60  
 atttgaagtt gatgtggaaa ttgccaaaca atctgtgact attagacca tgttggaaga 120  
 tttgggaatg gatgatgaag gagatgatga cccagttcct ctaccaaag tgaatgcagc 180  
 aatattaaaa aaggtcattc agtgggtcac ccaccacaag gatgaccctc ctcctcctga 240  
 agatgatgag aacaaagaaa agcgaacaga tgatatccct gtttgggacc aagaattcct 300  
 gaagttgccca aggaacactt ttttgactca ttctggctgc aaactactta gacatcaaag 360  
 gtttgcttga tgtacatgca agactgttgc caatatgatc aaggggaaaa ctcctgagga 420  
 gattcgcaag accttcaata tcaaaaatga ctttctgaag aggaggaacc cagtcgcaaa 480  
 gagaccagtg ggtgaagaga agtgaatgtt gtgctgcact gtacctg 527

<210> 684  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
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 acataaagtc cctcgactta tgtcgggtag actcttccta gctcaggaga aacacatttt 180  
 aactggctga ggacaaggcc aggcagcctg gccacactgc ggaagggcag ctggacgcgc 240  
 ggctctgtgt cagtcctgga agtgcttggg gagggcttcc agcagctcct gcttcttcag 300  
 cccactcttc agcccgtaa cccggcaggc ctctttcagc atgggcacag tgaacttgcc 360  
 cagcgtaccc ttgctgatgt gggctcttcag ctcctcttct gaatactcca ccttgggcct 420  
 tttgcttcca gaaccttcac t 441

<210> 685  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<400> 685  
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 atggctatgc agcggccagg tccctatggt ggagggtatg gaggctatga tgactatggt 120  
 ggctataatg atggatatgg ctttgggtct gatagatttg gaagagacct caattactgt 180  
 ttttcaggaa tgtctgatca tagatacggg gatgggtggg ccagtttcca gagcaccaca 240  
 gggcactgtg tacacatgag ggggttacct tacagagcca ctgagaatga tatttataat 300  
 ttcttctcac ctcttaatcc catgagagta catattgaaa ttggaccoga tggcagagtt 360  
 accggtgagg cagatgttga atttgctact catgaagatg ctgtggcagc tatggcaaaa 420  
 gacaaagcta atatgcacac agatatgtgg agctcttctt aaattctctg caggaacaag 480  
 tgggggtgct 490

<210> 686  
 <211> 618  
 <212> DNA  
 <213> Homo sapiens

<400> 686  
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 aaaattgaaa agtacagaga ataatcgggt tctactgtaa caccaccaga tttaacaatg 120  
 ttaatgttac gccatatttg tttcaaatat ttttgtaata ttgaacatta tggatagagt 180  
 taaagcttgt ttgtatccat cccgttggtt acattctcca tcccctacat aggtaaccac 240  
 tattctgaag ttgatgtgta ttctttgtgt acatgctttt ataccttttc tgcatatgta 300

```

tgtatccata aataatatgt agtctgttgt gtgttttttaa aotttacaca gtggatgtcg 360
tactcttaca tgtattctgc agcttgcatt tttcacacat tcattttgaa tattcgttca 420
tgtaacaat gtagatctag ttttcttttt aaactctgta tagtattctt atgtatgaca 480
tacacttggt gttatacatt tgaattatct ccagggtattc ttttttgtgt gtggatgtga 540
aagtcacgat ggcagagatt tttgaaggaa gataaattat tttaggatta catttacagc 600
gcaggccac ttcaaggt 618

```

&lt;210&gt; 687

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 396

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 687

```

ggggatcaga ggctgggtgag gttggccctg ttgcagcatc tgcgggcctt ctatgggtatt 60
aagtggaagg gtgtccgtgg gcagtgcgat cgcaggagac atgaaacagc agccacggaa 120
atagggggta aaatatattg agtacctttt aatgcactgc cccattctgc tgtaccagaa 180
tatggacaca ttccaagctt tcttgtcgat gcttgcacat ctttagaaga ccatattcat 240
accgaagggc tttttcggaa atcaggatct gtgattcgcc taaaacacta aagaataaag 300
tggatcatgg ggaagggttg ctatctctgc acctccttgg gatattgcgg gacttcttaa 360
gcagtttttt agggactgac agagcccatc ctcccncatg tttgcatgaa 410

```

&lt;210&gt; 688

&lt;211&gt; 412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 688

```

ggccggtgca gcgggggggc ccggggggccc tgggtggccct gggatgggga accgcggtgg 60
cttccgcgga ggtttcggca gtggcatccg gggccggggt cgcggccgtg gacggggccg 120
ggcccgaggc cgcggagctc gcggaggcaa ggccgaggat aaggagtgga tgcccgctac 180
caagttgggc cgcttggtca aggacatgaa gatcaagtcc ctggaggaga tctatctctt 240
ctccctgccc attaaggaat cagagatcat tgatttcttc ctgggggcct ctctcaagga 300
tgagggtttg aagattatgc cagtgcagaa gcagaccgtg gccggccagc gcaccaggtt 360
caaggcattt gttgctatcg gggactacaa tggccacgtc ggtctgggtg tt 412

```

&lt;210&gt; 689

&lt;211&gt; 412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 689

```

gccttgctaa cgctgccgtc ggggaggatt gatgtccctt cagcatcatg cagcccgccg 60
ccgaggaagg tgaaagttac acaagaactg aaaaacattc aagttgagca gatgacaaaa 120
cttcaagcca aacatcaagc agaattgtgat ttgcttgaag atatgaggac attcagtcag 180
aagaaggctg ctattgaaag agagtatgca cagggtatgc agaagttggc tagtcaatac 240
ctgaagagag attggcctgg agtaaaagct gatgatcgga atgattacag gagcatgtat 300
cccgtttgga aatcttttct cgagggaaca atgcaggtag cccagtctcg gatgaatata 360
tgtgaaaact ataaaaactt catttctgac ctgcaaggac agtgagaagc tt 412

```

&lt;210&gt; 690

&lt;211&gt; 412

&lt;212&gt; DNA

<213> Homo sapiens

<400> 690

```
gggcggccccg gcgcggggct ctcatagtgc tggagggcgt ggaccgcgcc gggaagagca 60
cgcagagccg caagctggtg gaagcgctgt gcgcgcggg ccaccgcgcc gaactgctcc 120
ggttccccgga aagatcaact gaaatcggca aacttctgag ttctacttg caaaagaaaa 180
gtgacgtgga ggatcactcg gtgcacctgc ttttttctgc aaatcgctgg gaacaagtgc 240
cgtaatttaa ggaaaagtgt agccaggggc tgacctctgt cgtggacaga tacgcatttt 300
ctgggtgtggc cttcaccggg gcccaaggaga atttttccct agactggtgt aaacagccag 360
acgtgggcct tcccaaacc gacctggtcc tgttctctca gttacagctg gc 412
```

<210> 691

<211> 412

<212> DNA

<213> Homo sapiens

<400> 691

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ggttttcatc cttgaaaaac agtaagaaat atgctccac cgaggcacag ttgaatgctg 60
ttgatgcttt gattgactcc atgagcttgg caaagaaaga tgagaagaca gacacccttg 120
aagacttggt tccaaccacc aaaatcccaa atcctcgatt tcagagatta tttcagtgtc 180
tgctgcacag agctttacat ccccgggagc ctctaccccc aattcagcag cataatttga 240
atatgctgaa tcctcccgct gaggtgacaa cgaaaagtca gattcctctc tctaaaataa 300
agaccctttt tcctctgatt gaagccaaga aaaaggatca agtgactgct caggaaatth 360
tccaagacaa ccatgaagat ggacctacag ctaaaaaatt aaaaactgag ca 412
```

<210> 692

<211> 412

<212> DNA

<213> Homo sapiens

<400> 692

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gcttggttgt ggatcgctgt gatcgtcact tgacaatgca gatcttcgtg aagactctga 60
ctggtaagac catcaccctc gaggttgagc ccagtgcac catcgagaat gtcaaggcaa 120
agatccaaga taagggaagg atccctcctg accagcagag gctgatcttt gctggaaaac 180
agctggaaga tgggcgcacc ctgtctgact acaacatcca gaaagagtcc accctgcacc 240
tggtgctccg tctcagaggt gggatgcaaa tcttcgtgaa gacactcact ggcaagacca 300
tcacccttga ggtggagccc agtgacacca tcgagaacgt caaagcaaag atccaggaca 360
aggaaggcat tcctcctgac cagcagaggt tgatctttgc cggaagcag ct 412
```

<210> 693

<211> 413

<212> DNA

<213> Homo sapiens

<400> 693

```
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ccctttcctt cactcaaggg ccatttcccc agtccctatc tccccatcc cctcccggct 120
tataggcccc acaggtgcta tttgttgctc tggcccaggc gtggggctac caagcaaagg 180
cttggcatat accaaaggcc aagctgcatg cccattaatc tgggcttttt tcttttgcgg 240
gtcaatgtgg gttttaatgc tgaatcaaat gtttaacttt tccaagactt gggggaatct 300
gaagttccca tctacacttc taccactttt tcctgcccaa cctaaacctt cgtttaagta 360
attggaaggg actggttccc ttctttttgt tggaaggga ccaggaagga aag 413
```

<210> 694

<211> 441

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 100,138,202,203,211,237,287

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 694

```

actagtggat ccaaagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagaggcgc ccgaggcgcg gaggggctgn ctgggcagga ggggttggcg 120
gggcagcagg gccgcggnca tggggagctt gaaggaggag ctgctcaaag ccatctggca 180
cgcttcacc gcactcgacc annaccacag nggcgaggtc tccaagtccc agctcanggt 240
cctttcccat aacctgtgca cgggtgctgaa gggtccctcgt gaccanttg cccttgaaga 300
gcacttcagg gatgatgatg aggggtccagt gtccaaccag ggctacatgc cttattttaa 360
caggttcatt ttggaaaagg tccaagacaa ctttgacaag attgaattca ataggatgtg 420
ttgggaccct ctgtgtcaaa a

```

441

&lt;210&gt; 695

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 695

```

gctcgtctcc cgcgggcccag cgctcgccacc accgcttctc cctccctgtc gcagccgcgc 60
cgccgcgcag cgccccagcc acacgcgcgc gggcagaagc cgcccgctct ccggaaagtg 120
ataacagaat tcattgaagt ggagaat ttaagaaggt aacaaaaaga gaaagaaaat 180
gccgaaacca atcaacgtaa gagtaactac aatggatgct gagctggaat ttgccattca 240
gcccaataca actggcaaac aacttttttga ccagggtggtg aaaacagttg gtttgctgta 300
gggtcgtgtt tttgggctgc agtatgtaga cagcaaaggt tattctacat ggcttaaact 360
aaataaaaag gtaacacagc aggatgttaa aaaagagaat cctttacagt tca

```

413

&lt;210&gt; 696

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 696

```

ggcttgatgg tcgaggccat ctcttggggc gcctggcggc catcgtggct aaacagggtac 60
tgctggggcg gaagggtggt gtcgtacgct gtgaaggcat caacatttct ggcaatttct 120
acagaaacaa gttgaagtac ctggcttttc tccgcaagcg gatgaacacc aaccttccc 180
gaggccccta ccacttcggy gccccagcc gcattctctg gcggaccgtg cgaggtatgc 240
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tcccaccgcc ctacgacaag aaaaagcgga tgggtggttc tgctgccctc aaggtcgtgc 360
gtctgaagcc tacaagaaag tttgcctatc tggggcgcc

```

399

&lt;210&gt; 697

&lt;211&gt; 398

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 697

```

gcagtagctg ggtgggcacc atggctggga tcaccaccat cgaggcggtg aagcgcaaga 60
tccaggttct gcagcagcag gcagatgatg cagaggagcg agctgagcgc ctccagcgag 120
aagttgaggg agaaaggcgg gcccggaac aggtgagggc tgaggtggcc tccttgaacc 180
gtaggatcca gctggttgaa gaagagctgg accgtgctca ggagcgctg gccactgcc 240
tgcaaaagct ggaagaagct gaaaaagctg ctgatgagag tgagagaggt atgaaggtta 300
ttgaaaaccg ggccttaaaa gatgaagaaa agatggaact ccaggaaatc caactcaaag 360
aagctaagca cattgcagaa gaggcagata ggaagtat

```

398

&lt;210&gt; 698

<211> 396  
<212> DNA  
<213> Homo sapiens

<400> 698  
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gtgtgcactt cgaaaaagaa cataaagctg agaaagtccc agcagtagcc aactacatta 120  
tgaaaataca caatctttact agcaaatgcc tctactgtaa tcgctattta cccacagata 180  
ctctgctcaa ccatatgtta attcatggtc tgtcttgtcc atattgccgt tcaactttca 240  
atgatgtgga aaagatggcc gcacacatgc ggatggttca cattgatgaa gagatgggac 300  
ctaaaacaga ttctactttg agttttgatt tgacattgca gcagggtagt cacactaaca 360  
tccatctcct ggtaactaca tacaatctga gggatg 396

<210> 699  
<211> 398  
<212> DNA  
<213> Homo sapiens

<400> 699  
ggccactgca gtgctcgagc cccgtgcagg ggagcttgcc ggaggatcga ccgacagacg 60  
gacgcacgcc gaggcactgc gccccagcc ccgcgccggt gccaccgcag cccgaccccg 120  
gccgccagtc cagccgcccc tcgcccggtg cctaggtgcc cggccccaca ccgccagctg 180  
ctcggcgccc gggctccgcca tgcgctccgc cgctgtcctg gctcttctgc tctgcgccgg 240  
gcaagtcact gcgctccctg tgaacagccc tatgaataaa ggggataccg aggtgatgaa 300  
atgcatcggt gaggtcatct ccgacacact ttccaagccc agccccatgc ctgtcagcca 360  
ggaatgtttt gagacactcc gaggagatga acggatcc 398

<210> 700  
<211> 399  
<212> DNA  
<213> Homo sapiens

<400> 700  
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agtcagccag gagcttgggg aagggaagcg cgccccggg gccggtcccg gagggctcga 120  
tccgcatcta cagcatgagg ttctgcccgt ttgctgagag gacgcgtcta gtcctgaagg 180  
ccaagggaat caggcatgaa gtcataata tcaacctgaa aaataagcct gagtgtttct 240  
ttaagaaaaa tcccttttgt ctggtgccag ttctggaaaa cagtcagggt cagctgatct 300  
acgagtctgc catcacctgt gagtacctg atgaagcata cccagggaag aagctgttgc 360  
cggatgaccc ctatgagaaa gcttgccaga agatgatct 399

<210> 701  
<211> 399  
<212> DNA  
<213> Homo sapiens

<400> 701  
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ccaagtccaa tatggcaact ctaaaggatc agctgattta taatcttcta aaggaagaac 120  
agacccccca gaataagatt acagttgttg gggttgggtg tggtggcatg gcctgtgcca 180  
tcagtatctt aatgaaggac ttggcagatg aacttgctct tggtgatgtc atcgaagaca 240  
aattgaaggg agagatgatg gatctccaac atggcagcct tttccttaga acaccaaaaga 300  
ttgtctctgg caaagactat aatgtaactg caaactccaa gctggtcatt atcacggctg 360  
gggcacgtca gcaagaggga gaaagccgtc ttaatttgg 399

<210> 702  
<211> 398  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 702

```

gccacagcgg gagcggcagc aagtcgtccg gaccgccacc gccgtcgggt tcctccggga 60
gtgaggcggc cgcgggagcc ggggccgccg cgcgggcttc tcagcacccc gcaaccggca 120
ccggcgctgt ccagaccgag gccatgaagc agattctcgg ggtgatcgac aagaaacttc 180
ggaacctgga gaagaaaaag ggtaagcttg atgattacca ggaacgaatg aacaaagggg 240
aaaggcttaa tcaagatcag ctggatgccg tttctaagta ccaggaagtc acaataaatt 300
tggagtttgc aaaagaatta cagaggagtt tcatggcact aagtcaagat attcagaaaa 360
caataaagaa gacagcacgt cgggagcagc ttatgaga 398

```

&lt;210&gt; 703

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 703

```

ggttacaaaa gttgaagtgc agaagttctt tgcagacttt cttcttgctg aggatgacat 60
ttacttgctt tatgatgaca aaggtgttgg tctgggagaa gcattagtga aatttaaattc 120
agaagaacag gccatgaaag ctgaacgttt aaaccgacga agattcctag ggacagaggt 180
gttattaaga cttatatctg aggcacaaat acaggagttt ggtgtaaatt tttctgtgat 240
gtccagtga aaaaatgcaag ctcgctcaca gtcacgtgag cgaggtgacc attcccattt 300
atttgactca aaagaccac caatatactc agttgggtgct tttgaaaact ttagacatca 360
gctagaggac ttgaggcaac tggataactt caagcatccc cag 403

```

&lt;210&gt; 704

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 704

```

cacgaggcca aagcccgcg cccgctgcat cccggtcca gcacctacgt cccgctgccg 60
tcgcccgcgc caccatgccc aagagaaagg ctgaaggagg tgctaaggga gataaagcaa 120
aggtgaagga cgaaccacag agaagatccg cgagggtgtc tgctaaacct gtcctccaa 180
agccagagcc caagcctaaa aaggcccttg caaagaaggg agagaaggta cccaaagggg 240
aaaagggaag agctgatgct ggcaaggagg ggaataaccc tgcagaaaat ggagatgcca 300
aaacagacca ggcacagaaa gctgaagggt ctggagatgc caagtgaagt gtgtgcattt 360
ttgataactg tgtacttctg gtgactgtac agtttgaaat actatTTTTT a 411

```

&lt;210&gt; 705

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 705

```

gagaacgtcc actgcgggcc ggcgaaagct ggttccttgt ggagaagcac tgggtataagc 60
agtgggaggc atacgtgcag ggaggggacc aggactccag caccttcccc ggctcatctg 120
gcgccccagc ctccccgccc tgcagctccc caccagctc tgagttcatg gatgttaatt 180
gagagccctg ggtcctgcc cag 203

```

&lt;210&gt; 706

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 706

```

gtgtgggcag gcagggtagg tggcccaccc agttcactcc cacgctgggg acctgcagag 60
ctggctgtcc gagacaggtt gtttggacca acatctgggt ttctggattt ccatttgagc 120

```

```

acagctggac tacacaggct gaagctctct ctgccgagat atagatatatt ccctgggtgat 180
gatctttcaa gctgacatga agacatggcc acccactgga acgtcgtgtg tctgccgtgg 240
cgctcttgta atttgtgagg gaggtcctg acgaatgcag tgcgtaagtg ggaaatgggtg 300
ggaagttctc gcatcccccc gcttggccga aagtgtctgcc tgcgcagatt tgtggatggg 360
cctttgagca ggaagaagac acggaacaca ttctgttag ct 402

```

&lt;210&gt; 707

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 707

```

gcacgaggca cgactgttac agaggtctcc agagccttct ctctcctgtg caaaatggca 60
actcttaagg aaaaactcat tgcaccagtt gcggaagaag aggcaacagt tccaaacaat 120
aagatcactg tagtgggtgt tggacaagtt ggtatggcgt gtgctatcag cattctggga 180
aagtctcttg ctgatgaact tgctcttgtg gatgttttgg aagataagct taaaggagaa 240
atgatggatc tgcagcatgg gagcttattt cttcagacac ctaaaattgt ggcagataaa 300
gattattctg tgaccgcaa ttctaagatt gtatggtaa ctgcaggagt ccgtcagcaa 360
gaaggggaga gtcggctcaa tctggtgcag agaaatgtta atgtcttcaa a 411

```

&lt;210&gt; 708

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 708

```

ggcaggccga gcaggccgct gccagaaaac gccaccgtga ggagctggag cagagcaagc 60
aggccgctgg gggactgcgg gcagagctgc tgcggggcca gcgggagctt ggggagctga 120
ttcctctgcg gcagaaggtg gcagagcagg agcgaacagc tcagcagctg cgggcagaga 180
aggccagcta tgcagagcag ctgagcatgc tgaagaaggc gcatggcctg ctggcagagg 240
agaaccgggg gctgggtgag cgggccaacc ttggccggca gtttctggaa gtggagtgtg 300
accaggcccg ggagaagtat gtccaagagt tggcagccgt acgtgctgat gctgagacct 360
gtctggctga ggtgcagcga gaagcacaga gcactgcccg ggagctggag gtgatgac 418

```

&lt;210&gt; 709

&lt;211&gt; 422

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 709

```

gcggagtcgg cgggtggtcgt ccagaccgag tgttctttac tttttgtttg gttgaggttt 60
cacgctagaa ggtggctcag gatgtcttca tcacattttg ccagtcgaca caggaaggat 120
ataagtactg aaatgattag aactaaaatt gctcatagga aatcactgtc tcagaaagaa 180
aatagacata aggaatacga acgaaataga cactttgggt tgaaagatgt aaacattcca 240
accttggaag gtagaattct tgttgaatta gatgagacat ctcaagggtg tgttccagaa 300
aagaccaatg ttaagccaag ggcaatgaaa actattctag gtgatcaacg aaaacagatg 360
ctccaaaaat acaaagaaga aaagcaactt caaaaattga aagagcagag agagaaagct 420
aa 422

```

&lt;210&gt; 710

&lt;211&gt; 424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 710

```

gcgccgacgc cgtaccgctg cggccggggg attgggccgg ggtctccacc gccgaccgag 60
gggagcgggc tccgctcggc cctgcttttt gcgacctggc cgtcagcccc acgtgcgccg 120
cctggagggg cgaagaggac gagggggcca aggcttcctc cggggacatt ggctccctgg 180

```

```

attatcaaga gttttagtatt gacattgaat ccaggctgag gatggaaggt gtggaactta 240
aagaagaatg gcaagatgaa gatttttccga tacctttacc agaagatgat agtattgaag 300
cagatatact agctataact ggaccagagg accagcctgg ctactagaa gttaatggaa 360
ataaagttag aaagaaacta atggctccag acattagcct gacactggat cctagttagt 420
gctc 424

```

```

<210> 711
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 711
gctcgcgccc cttttcctac actttcctct tctccccgac cggaggagcc gctctttccg 60
cgcggtgcat tctggggccc gaggtcgagc ccgccgctgc cgccgtcgcc tgagggaagc 120
gagaagaggg cgcgaccgga gagaaaaagc ggagtcgcca ccgagagaa gtcgactccc 180
tagcagcagc cgccgcagga gagggccgcc caccagttcg ccggtccccc tgccccgttc 240
acaatgcagc ctgcttctgc aaagtgggtac gatcgaaggg actatgtctt cattgaattt 300
tgtgttgaag acagtaagga tgttaatgta aattttgaaa aatccaaact tacattcagt 360
tgtctcggag gaagtgataa ttttaagcat ttaaataaaa ttgatctttt tctactgtatt 420
gatcc 425

```

```

<210> 712
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 712
ggtttttccg tgattctgat gagctcaaga gttgggtcaa tgagaagatg aaaactgcc 60
cagatgaagc ttataaagat ccatccaacc tacaaggaaa agtacagaag catcaggctt 120
ttgaggctga gctctcagca aaccagagcc gaattgatgc cttggagaaa gctggccaaa 180
agctgattga tgtcaaccac tatgccaaagg atgaagtggc agctcgtatg aatgaggtga 240
tcagtttgtg gaagaaactg ctagaggcca ctgaactgaa aggaataaag cttcgtgaag 300
ccaaccagca acagcaattt aatcgcaatg ttgaggatat tgaattgtgg ctatatgaag 360
tagaaggtca cttggcttcg gatgattacg gcaaagatct taccatgtg cagaacctcc 420
agaag 425

```

```

<210> 713
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<400> 713
gccgacaaaa tggacatgtc tctggacgac atcattaaac tgaaccggag ccagcgaggc 60
ggccggggcg ggggcccggg ccgcccggcg gccggctccc agggcggccg cggcggtggg 120
gcgaggcccg ccgcgcgagt gaatcgaggc ggcgggcccc tccggaaccg gccggccatc 180
gcccgcggcg cgcccgggcg aggcggcagg aaccgaccgg cgccctacag caggccaaaa 240
caacttcccg acaagtggca gcacgatctt ttcgacagtg gcttcggcgg tggtgccggc 300
gtggagacag gtgggaaact gctggtgtcc aatctggatt ttggagtctc agacgccgat 360
attcaggaac tctttgctga atttggaacg ctgaataagg cggctgtgca ctatgatcgc 420
tct 423

```

```

<210> 714
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 714
gcggcagtag aagatgggtg aagaaacaac ttactacgat gttttggggg tcaaacccaa 60

```



```

tgctactcag gaagaattga aaaaggctta taggaaactg gccttgaagt accatcctga 120
taagaaccca aatgaaggag agaagtttaa acagatttct caagcttacg aagttctctc 180
tgatgcaaag aaaagggaat tatatgacaa aggaggagaa caggcaatta aagaggggtgg 240
agcaggtggc ggtttttggt ccccatgga catctttgat atgttttttg gaggaggagg 300
aaggatgcag agagaaagga gaggtaaaaa tggtgtacat cagctctcag taaccctaga 360
agacttatat aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa 420
atgtg                                           425

```

&lt;210&gt; 715

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 715

```

gatcatatag taaaaccag cccatgaccc ctaacagggg ccctctcagc cctcctaattg 60
acctccggcc tagccatgtg atttcacttc cactccataa cgctcctcat actaggccta 120
ctaaccaaca cactaaccat ataccaatga tggcgcgatg taacacgaga aagcacatac 180
caaggccacc acacaccacc tgtccaaaaa ggcttgcgat acgggataat cctattttatt 240
acctcagaag tttttttctt cgcaggattt ttctgagcct tttaccactc cagcctagcc 300
cctaccccc aattaggagg gcaactggccc ccaacaggca tcaccccgct aaatccccta 360
gaagtcccac tcctaaacac atccgtatta ctgcgcacag gagtatcaat cacctgagct 420
cac                                           423

```

&lt;210&gt; 716

&lt;211&gt; 424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 716

```

gcggcggcgc ggagagacgc agcggaggtt ttccctggtt cggaccccag cggccgggatg 60
gtgaaatcct ccctgcagcg gatcctcaat agccactgct tcgccagaga gaaggaaggg 120
gataaaccca cgcgcccat ccacgccagc cgcaccatgc cgctcctaag cctgcacagc 180
cgcggcggca gcagcagtga gagttccagg gtctccctcc actgctgtag taacccgggt 240
ccggggccctc ggtggtgctc ctgatgcccc tcacccaccc ctgaagatcc caggtgggagc 300
agggaatagt cagagggatc acaatctttc agctaactta ttctactccg atgatcggct 360
gaatgtaaca gaggaactaa cgtccaacga caagacgagg attctcaacg tcagtccagg 420
ctca                                           424

```

&lt;210&gt; 717

&lt;211&gt; 424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

```

gggcagctag ggagcgcggc ttgaggaggg cggggccgcc ccgcaggccc gccagtgtcc 60
tcagctgcct ccgcgcgcca aagtcaaacc ccgacacccg ccggcggggc ggtgagctca 120
ctagctgacc cggcaggtca ggatctggct tagcggcgcc gcgagctcca gtgcgcgcac 180
ccgtggccgc ctcccagccc tctttgcccg acgagctctg ggccgccaca agactaagga 240
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atcaagaaaa tctccatcga agggaaacatc gctgcaggga agtcaacatt tgtgaatatc 360
cttaaacaaat tgtgtgaaga ttgggaagtg gtccctgaac ctggtgcccag atggtgcaat 420
gttc                                           424

```

&lt;210&gt; 718

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 718

```

gtcggctcct cgcgcgctcg cgtccctcgt tgcgggctcc agccgcagcc ttagcttcgg 60
ctcccggtt ggggtggcgcg gccgtgccct cgttttggcc tccgaacgcg gctcgaatgg 120
caagccaaaa ttcccttccgg atagaatatg atacctttgg tgaactaaag gtgccaaatg 180
ataagtatta tggcgcccag accgtgagat ctacgatgaa ctttaagatt ggaggtgtga 240
cagaacgcac gccaaaccca gttattaaag cttttggcat cttgaagcga gcggccgctg 300
aagtaaacca ggattatggc cttgatccaa agattgctaa tgcaataatg aaggcagcag 360
atgaggtagc tgaaggtaaa ttaaattgac attttcctct cgtggtatgg cagactggat 420
cagga                                         425

```

&lt;210&gt; 719

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

```

gccggggcgt ctccctcacc aatcatcaact totacgatga gtccaagcct ttcacctgcc 60
tggaacggtt ggccaccatc ccatttgatc aggtcaacga tgactattgc gactgcaaag 120
atggctctga cgagccaggc acggctgcct gtcctaattg cagcttccac tgcaccaaca 180
ctggctataa gcccctgtat atcccttoca accgggtcaa cgatggtgtt tgtgactgct 240
gcgatggaac agacgagtac aacagcggcg tcactctgtg gaacacctgc aaagagaagg 300
gccgtaagga gagagagtcc ctgcagcaga tggccgaggc caccgcgcaa gggttccgtc 360
tgaagaagat ccttattgag gactggaaga aggcacggga ggagaaacag aaa 413

```

&lt;210&gt; 720

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

```

gaaagcctct tgtcatctct cagatgggtt ccaaaaagaa gcccaaaatt atccagcaaa 60
acaaaaaaga gacctgcct caagtgaagg gagaggagat gccggcagga aaagaccagg 120
aggccagcag gggctctgtt ccttcagggt ccaagatgga caggagggcg ccagtacctc 180
gcaccaaggc cagtggaaca gagcacaata agaaaggaa caaggaaagg acaaattgtg 240
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cagccccacc caccgaggaa gacatctggt ttgacgacgt ggaccagcg gatatcgaag 360
ctgccatagg tccagaggcg gccaaagatag cgaggaaaca gttgggtcag agcg 414

```

&lt;210&gt; 721

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 721

```

ggcggcgcag gccgggctgg gcccgcgcg gccggcagcg gcgccccgg cggaggcgg 60
cccagccgag cgggcatggt ccaccgccat tcagaacccg ctcaagtcgc gaggacttct 120
accgcgaggc catcgagcac tgcgcagtt acaacgcgcg cctgtgcgcg gagcgcagcc 180
tgcgactgcc ctctctcgac tcgcagacc gcgtggccca gaacaactgc tacatctgga 240
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gctgtttggg gaagaaacgg agactcaaca tcctggagga cccagactc aggcctgcg 360
agtacaagat cgactgtgaa gcacccctga agaaggaggg tggcctccc gaag 414

```

&lt;210&gt; 722

&lt;211&gt; 412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc\_feature  
 <222> 262,396  
 <223> n = A,T,C or G

<400> 722

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ttagatccca taagtgagaa catgcagtgt ttgactttct gtgccttatt tgacttaaca 120
tagtgacctc ccattttcat ctgtgttgtt gcaaatgaca ggatctcatt cttttttatt 180
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tatgagaatg cagatatctt ccataatgtt attcctttct tttgggtata taccagcag 360
tgggattgct ggatcatatg gagctttatt tttagnnttt tgaggacctc ca 412
```

<210> 723

<211> 451

<212> DNA

<213> Homo sapiens

<400> 723

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tagtggatcc aaagaaaaag gctgctgac aaaaaaccaa agtgccagaa cctactaaga 60
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caagcagcaa caatggcaaa cgtgcatctg ccagtggcca gcagccagct gcattcccgtt 180
acctgcctcg tgaggtgcct ccacgcttcc gccagcaaga acagaagcag ctattaaaga 240
gaggccagcc attgcctacg gggactctaa ccagtgtgag cccaacccag ggtgctgggc 300
ctgcaggggt aagcccacct cccctacctg gagccggaac acagcatcat cccagtaagc 360
tccaaccaga tctcagtcac agtggatttg cagatcatta tgaaaattcc cactggggag 420
agcagcctac ttacagaagc gaagccaact g 451
```

<210> 724

<211> 425

<212> DNA

<213> Homo sapiens

<400> 724

```
gggtgattca gccctgactt ctcaaaaagc actgcacaga ggaggaggca gcagaacccc 60
acttcagctt cttaggactc tgcaattccc cagaagggaag aattaaaaat gaatatgttc 120
aaggaagcag tgaccttcaa ggacgtggct gtggccttca cggaggagga attggggctg 180
ctgggccctg cccagaggaa gctgtaccga gatgtgatgg tggagaactt taggaacctg 240
ctgtcagtgg ggcattccacc cttcaaacaa gatgtatcac ctatagaaag aaatgagcag 300
ctttggataa tgacgacagc aaccggaaga cagggaaatt taggagagaa aaatcaaagt 360
aagttaatta ctgttcaaga cagagaatca gaagaagagc tttcttggtg gcaaatctgg 420
caaca 425
```

<210> 725

<211> 421

<212> DNA

<213> Homo sapiens

<400> 725

```
ggacgaccga acgcccccg gaaacaccggg ccccgagctc ggtcccgcgc ccgaggatcc 60
tgcacggggc tagatggctg cgtcgggggc gggagcggag gtgagcgggc gctagggccg 120
cgagcccccg ccggcccttc ctccagcgcc ctgcggaccc cgcagaaggc gctcgcctcc 180
ctagcccgcg aaaacatatc gatTTTTctc gctgtggcaa cggggacgtc ctgatagatc 240
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cttgacagaag taaagtgcc gccttcttgc gcttccgaac ggaggcaacg aaggcctggg 360
gggaagtaag gtcccttttg ttcccagacg ggtggcgaac actttgggcg ctgcatgctt 420
g 421
```

<210> 726  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 726  
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 cccgggacgt gagccgctgc gccaccggg ctagaccgg cgccatcatg ctgcttctgc 180  
 caagcgccgc ggacggccgg ggcaccgcca tcaccacgc tctgacctct gcctctacac 240  
 tctgtcaagt tgaacctgtg ggaagatggt ttgaagcttt tgtaagagg agaaacagaa 300  
 atgcttctgc ctcttttcag gaactggagg ataagaaaga gttatccgag gaatcagaag 360  
 atgaagaatt gcagttggaa gagtttccca tgctgaaaac acttgatccc aaa 413

<210> 727  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<400> 727  
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 ggaatatattg gagcaatcag aggagaagct gtggctggga gaacctgagg gaacagccac 180  
 cgatcgctgg tatgatgaat atcatcctga ggaggatctg cagcacacgg ccagtgaact 240  
 tgtggccaaa gtggatgacc ccaaattggc taattctgag ggtacatcag atgcctgggt 300  
 tgaccagttc acaagaccag taaacacatc tgcccttgat atggagtttg aacgagccaa 360  
 gtcagctata gaagtctgat gtcgatttct gggacaagtt gcaggcagag ttgg 414

<210> 728  
 <211> 2170  
 <212> DNA  
 <213> Homo sapiens

<400> 728  
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 ataacagaat tcattgaagt ggagaatttt taaagaaggt aacaaaaaga gaaagaaaat 180  
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 aatgttaagg gagattcta tgatggaata cctgaagatt gcacaagatc tagaaatgta 780  
 tggagtcaac tattttgaaa taaaaaataa aaaaggaact gaattgtggc taggtgttga 840  
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 tcagaaagaa ctagaagaac agactcgaaa agctctagaa ctggatcaag aacgaaaacg 1320

```

agcaaaagaa gaagcagaac gacttgaaaa ggagcgtcga gctgctgaag aggcaaagtc 1380
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tgctgaattc actgccaaaga ttgcacttct agaggaagcc aagaagaaaa aggaagagga 1500
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gcctcttttt

```

&lt;210&gt; 729

&lt;211&gt; 4747

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 729

```

gagaaggaga aggctgccaa gctggagatt ctgcagcagc aacttcaggt ggctaatagaa 60
gcccgggaca gtgccagac ctcaagtaca caggccagc gggagaaggc agagctgagc 120
cggaagggtg aggaactcca ggcctgtggt gagacagccc gccaggaaca gcatgaggcc 180
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tcccgtg 4747

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&lt;210&gt; 730

&lt;211&gt; 2264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 730

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ggtccccgcc tccaagcgcg ccccgagcag ccccggtggc aagccgggtc ctgtcaagac 180
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&lt;210&gt; 731

&lt;211&gt; 2990

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 731

```

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gtgcctccac gcttccgcca gcaagaacag aagcagctat taaagagagg ccagccattg 240
cctacgggga ctctaaccag tgtgagccca acccagggtg ctgggcctgc aggggtaagc 300
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&lt;210&gt; 732

&lt;211&gt; 2247

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 732

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agagtttttt tttttttgac aaatctatct taaatgtcag tccaatatcc acggcgacga 180
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gcaaaaaaaaa aaaaaaaaaa actcgag 2247

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&lt;210&gt; 733

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 733

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Asp Ser Arg Glu Arg Thr His Gly Pro Pro Gly Pro Ile Asn Leu Thr
          5              10              15
Asp Pro Pro Leu Tyr Ser Ser Gln Pro Asn Ser Glu Asn Ser Glu Ser
          20              25              30
Ser Ser Arg Val Lys Lys Ala Leu Arg Val Phe Phe Phe Leu Thr Asn
          35              40              45
Leu Ser
          50

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&lt;210&gt; 734

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 734

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Met Ser Val Gln Tyr Pro Arg Arg Arg Ala Thr Ala Gly Glu Lys Pro
          5              10              15
Gly Asn Glu Pro Glu Glu Val Lys Leu Gln Asn Ala Ser Lys Gln Ile
          20              25              30
Val Gln Asn Ala Ile Leu Gln Ala Val Gln Gln Val Ser Gln Glu Ser
          35              40              45
Gln Arg Arg Glu Glu Arg Ile Ser Asp Asn Arg Asp His Ile Gln Leu
          50              55              60
Gly Val Gly Glu Leu Thr Lys Lys His Glu Lys Lys
          65              70              75

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&lt;210&gt; 735

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 735

Met Ala Arg Ser Val Asp Phe Phe Asn Ser Cys Leu Ser Leu Arg Asp  
                                   5                                  10                                  15  
 Leu His Leu Gly Leu Ile Met Gly Cys Asn Ile Leu Gly Arg Asp Ser  
                                   20                                  25                                  30  
 Gly Val Leu Asn Glu Cys Cys Phe Ala Thr Arg Leu Cys Ile Cys Ile  
                                   35                                  40                                  45  
 Arg Thr Leu Leu Thr Phe Pro Ile His Thr Leu Asn Phe Phe Phe Glu  
                                   50                                  55                                  60  
 Ile Met Lys Ile Ile Gln Val Arg Asn Thr  
                                   65                                  70

&lt;210&gt; 736

&lt;211&gt; 2768

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 736

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aaaaaaaaa 2768

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&lt;210&gt; 737

&lt;211&gt; 3162

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 737

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&lt;210&gt; 738

&lt;211&gt; 633

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 738

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Met Glu Ser Gly Pro Lys Met Leu Ala Pro Val Cys Leu Val Glu Asn
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Asn Asn Glu Gln Leu Leu Val Asn Gln Gln Ala Ile Gln Ile Leu Glu
          20                      25                      30

```

```

Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg
          35                      40                      45

```

```

Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His Gly
          50                      55                      60

```

```

Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp Met
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```

Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu Leu
          85                      90                      95

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```

Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn Asp
          100                      105                      110

```

```

Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val Tyr
          115                      120                      125

```

```

Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu His Tyr
          130                      135                      140

```

```

Val Thr Glu Leu Thr Glu Leu Ile Lys Ala Lys Ser Ser Pro Arg Pro
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```

```

Asp Gly Val Glu Asp Ser Thr Glu Phe Val Ser Phe Phe Pro Asp Phe
          165                      170                      175

```

```

Leu Trp Thr Val Arg Asp Phe Thr Leu Glu Leu Lys Leu Asn Gly His
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```

```

Pro Ile Thr Glu Asp Glu Tyr Leu Glu Asn Ala Leu Lys Leu Ile Gln
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```

```

Gly Asn Asn Pro Arg Val Gln Thr Ser Asn Phe Pro Arg Glu Cys Ile

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Leu Asp Pro Lys Phe Gln Glu Gln Thr Asn Ile Phe Cys Ser Tyr Ile		
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Phe Thr His Ala Arg Thr Lys Thr Leu Arg Glu Gly Ile Thr Val Thr		
	275	280 285
Gly Asn Arg Leu Gly Thr Leu Ala Val Thr Tyr Val Glu Ala Ile Asn		
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Ser Gly Ala Val Pro Cys Leu Glu Asn Ala Val Ile Thr Leu Ala Gln		
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Arg Glu Asn Ser Ala Ala Val Gln Arg Ala Ala Asp Tyr Tyr Ser Gln		
	325	330 335
Gln Met Ala Gln Arg Val Lys Leu Pro Thr Asp Thr Leu Gln Glu Leu		
	340	345 350
Leu Asp Met His Ala Ala Cys Glu Arg Glu Ala Ile Ala Ile Phe Met		
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Glu His Ser Phe Lys Asp Glu Asn Gln Glu Phe Gln Lys Lys Phe Met		
	370	375 380
Glu Thr Thr Met Asn Lys Lys Gly Asp Phe Leu Leu Gln Asn Glu Glu		
385	390	395 400
Ser Ser Val Gln Tyr Cys Gln Ala Lys Leu Asn Glu Leu Ser Lys Gly		
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Leu Met Glu Ser Ile Ser Ala Gly Ser Phe Ser Val Pro Gly Gly His		
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Lys Leu Tyr Met Glu Thr Lys Glu Arg Ile Glu Gln Asp Tyr Trp Gln		
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Val Pro Arg Lys Gly Val Lys Ala Lys Glu Val Phe Gln Arg Phe Leu		
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Glu Ser Gln Met Val Ile Glu Glu Ser Ile Leu Gln Ser Asp Lys Ala		
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Leu Thr Asp Arg Glu Lys Ala Val Ala Val Asp Arg Ala Lys Lys Glu		
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Ala Ala Glu Lys Glu Gln Glu Leu Leu Lys Gln Lys Leu Gln Glu Gln		
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Gln Gln Gln Met Glu Ala Gln Asp Lys Ser Arg Lys Glu Asn Ile Ala		
	515	520 525

Gln Leu Lys Glu Lys Leu Gln Met Glu Arg Glu His Leu Leu Arg Glu  
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Gln Ile Met Met Leu Glu His Thr Gln Lys Val Gln Asn Asp Trp Leu  
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His Glu Gly Phe Lys Lys Lys Tyr Glu Glu Met Asn Ala Glu Ile Ser  
565 570 575

Gln Phe Lys Arg Met Ile Asp Thr Thr Lys Asn Asp Asp Thr Pro Trp  
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Ile Ala Arg Thr Leu Asp Asn Leu Ala Asp Glu Leu Thr Ala Ile Leu  
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Ser Ala Pro Ala Lys Leu Ile Gly His Gly Val Lys Gly Val Ser Ser  
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Leu Phe Lys Lys His Lys Leu Pro Phe  
625 630

<210> 739

<211> 650

<212> PRT

<213> Homo sapiens

<400> 739

Phe Leu Asp Leu Arg Cys Tyr Arg Ala Gly Ser Ser Arg Leu Ala Val  
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Ala Met Glu Ser Gly Pro Lys Met Leu Ala Pro Val Cys Leu Val Glu  
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Asn Asn Asn Glu Gln Leu Leu Val Asn Gln Gln Ala Ile Gln Ile Leu  
35 40 45

Glu Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr  
50 55 60

Arg Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His  
65 70 75 80

Gly Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp  
85 90 95

Met Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu  
100 105 110

Leu Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn  
115 120 125

Asp Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val  
130 135 140

Tyr Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu His  
145 150 155 160

Tyr Val Thr Glu Leu Thr Glu Leu Ile Lys Ala Lys Ser Ser Pro Arg  
 165 170 175  
 Pro Asp Gly Val Glu Asp Ser Thr Glu Phe Val Ser Phe Phe Pro Asp  
 180 185 190  
 Phe Leu Trp Thr Val Arg Asp Phe Thr Leu Glu Leu Lys Leu Asn Gly  
 195 200 205  
 His Pro Ile Thr Glu Asp Glu Tyr Leu Glu Asn Ala Leu Lys Leu Ile  
 210 215 220  
 Gln Gly Asn Asn Pro Arg Val Gln Thr Ser Asn Phe Pro Arg Glu Cys  
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 Ile Arg Arg Phe Phe Pro Lys Arg Lys Cys Phe Val Phe Asp Arg Pro  
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 Thr Asn Asp Lys Asp Leu Leu Ala Asn Ile Glu Lys Val Ser Glu Lys  
 260 265 270  
 Gln Leu Asp Pro Lys Phe Gln Glu Gln Thr Asn Ile Phe Cys Ser Tyr  
 275 280 285  
 Ile Phe Thr His Ala Arg Thr Lys Thr Leu Arg Glu Gly Ile Thr Val  
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 Asn Ser Gly Ala Val Pro Cys Leu Glu Asn Ala Val Ile Thr Leu Ala  
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 Gln Arg Glu Asn Ser Ala Ala Val Gln Arg Ala Ala Asp Tyr Tyr Ser  
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 Gly Leu Met Glu Ser Ile Ser Ala Gly Ser Phe Ser Val Pro Gly Gly  
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 His Lys Leu Tyr Met Glu Thr Lys Glu Arg Ile Glu Gln Asp Tyr Trp  
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298

Gln Val Pro Arg Lys Gly Val Lys Ala Lys Glu Val Phe Gln Arg Phe  
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 Leu His Glu Gly Phe Lys Lys Lys Tyr Glu Glu Met Asn Ala Glu Ile  
 580 585 590  
 Ser Gln Phe Lys Arg Met Ile Asp Thr Thr Lys Asn Asp Asp Thr Pro  
 595 600 605  
 Trp Ile Ala Arg Thr Leu Asp Asn Leu Ala Asp Glu Leu Thr Ala Ile  
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 Ser Leu Phe Lys Lys His Lys Leu Pro Phe  
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&lt;210&gt; 740

&lt;211&gt; 6080

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 740

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&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 742

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 742

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 746

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